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WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration, National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and World Agricultural Outlook Board

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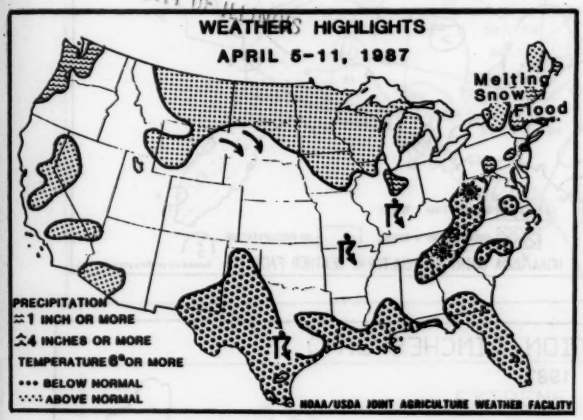
National Weather Summary

April 5 to 11, 1987



HIGHLIGHTS: Snow was still accumulating in the central and southern Appalachians as the week began, and moderate to heavy rain was falling in much of the Northeast. Coupled with snowmelt, the rain caused serious flooding in much of the Northeast. The rain moved out after midweek, but the flooding continued. Later another storm system spread rain from the Mississippi Valley to the Atlantic coast, except for Florida and New England. Average tem- peratures were warmer than normal in the West and across the Northern States but were cooler than normal from the central and southern Great Plains across the South.

SUNDAY...Snow continued in the central and southern Appalachians, while rainshowers covered the rest of the Northeast. Melting snow and heavy rain caused flooding in much of the Northeast. Snow covered the southern Rockies and spread onto the High Plains of Texas. Showers moved across the rest of Texas, with thunderstorms developing in the afternoon. Showers also moved into the Northeast. Freezing temperatures covered parts of the lower Mississippi Valley and reached to Northern Florida.

MONDAY...Snow tapered off in the central Appalachians, and light rainshowers covered the Ohio Valley and Mid-Altantic States. Moderate to heavy rain in the Northeast brought more flooding. A new surge of cold air dipped into the Mississippi Valley and central Great Plains. Showers were still along the Northwest coast and light snow was in the central Rockies.

TUESDAY...Broken rainshowers continued to cause flood problems in the Northeast. Light snow fell in the central Appalachians before ending. Cool weather continued across the South and the central Rockies and High Plains. Rain was heavy along the Northwest coast, and lighter amounts spread inland.

WEDNESDAY...Light showers tapered off in the Northeast, but rivers were still raging. A cool front was pushing across the northern Rockies, spreading showers over the Northwest. Record-warm temperatures and strong, gusty winds were ahead of the front across the northern Plains, but it was still cool in much of the central and southern High Plains.

THURSDAY...No rain fell east of the Mississippi River. A cold front, moving through the Plains, triggered showers and a few thunderstorms from central Oklahoma to the upper Mississippi Valley. Much cooler weather was behind the front, but record-high temperatures reached into the Great Lakes.

FRIDAY...The cold front, moving slowly eastward, spread showers and occasional thunderstorms from Arkansas to Minnesota and eastward through the Midwest and to the lower Appalachians. Another storm, moving into the Northwest, triggered moderate showers along the coast to northern California and lighter amounts inland to the northern Rockies. Colder weather moved into the Plains.

(Continued to p. 5)

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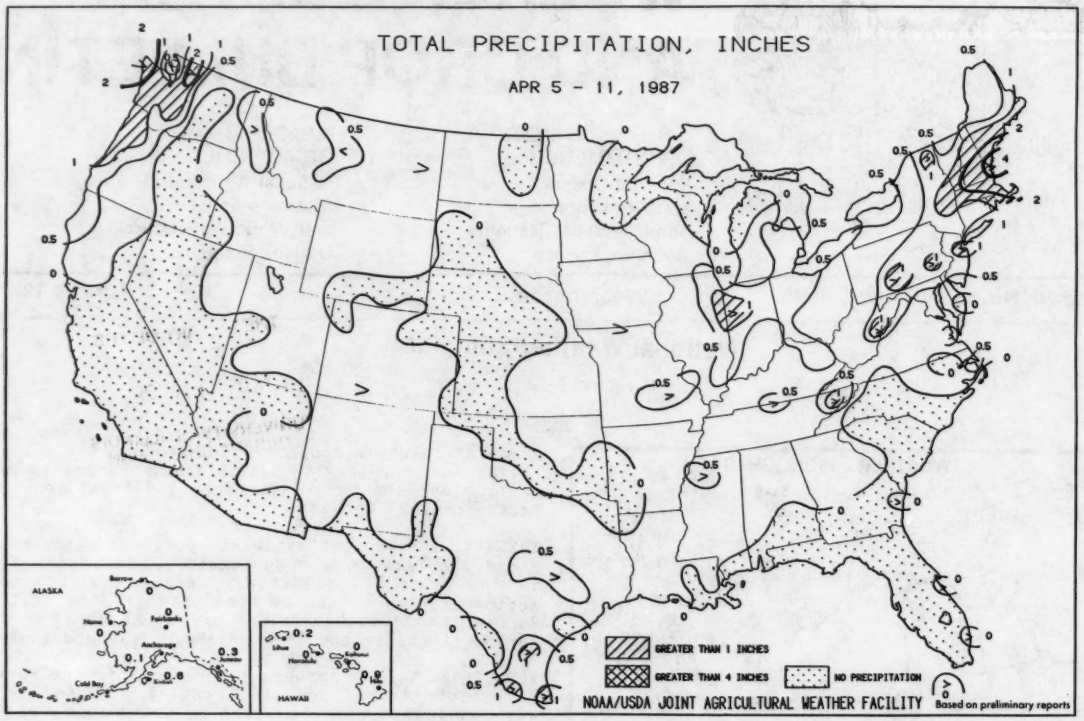
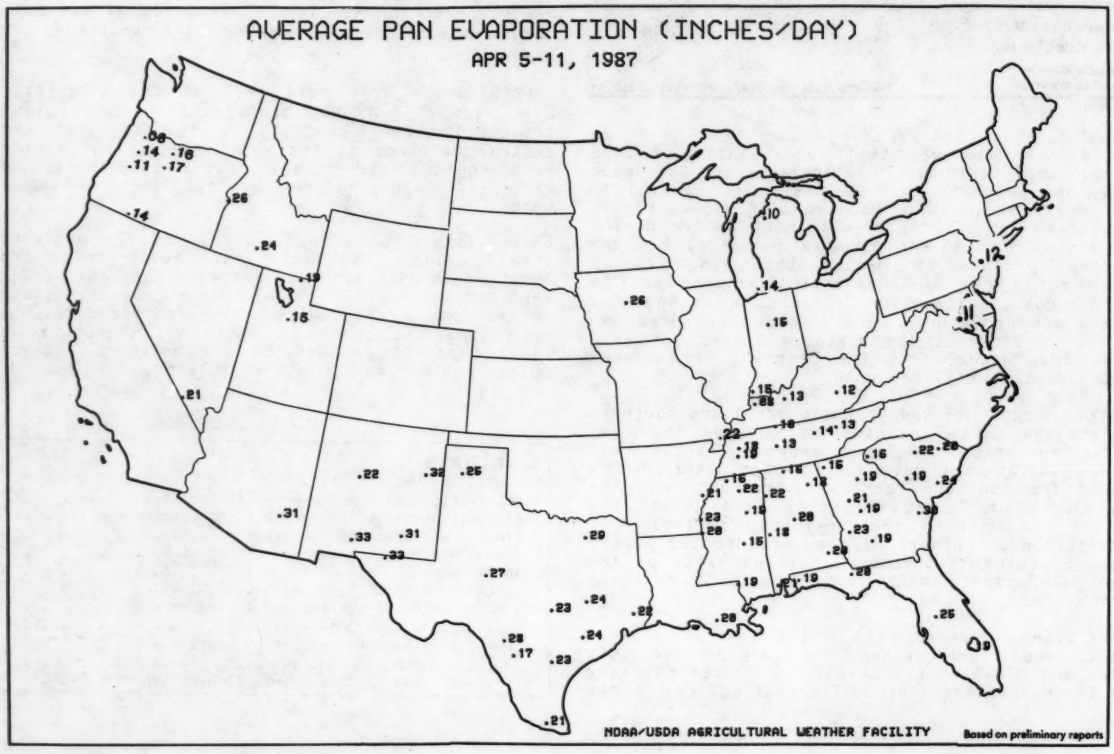
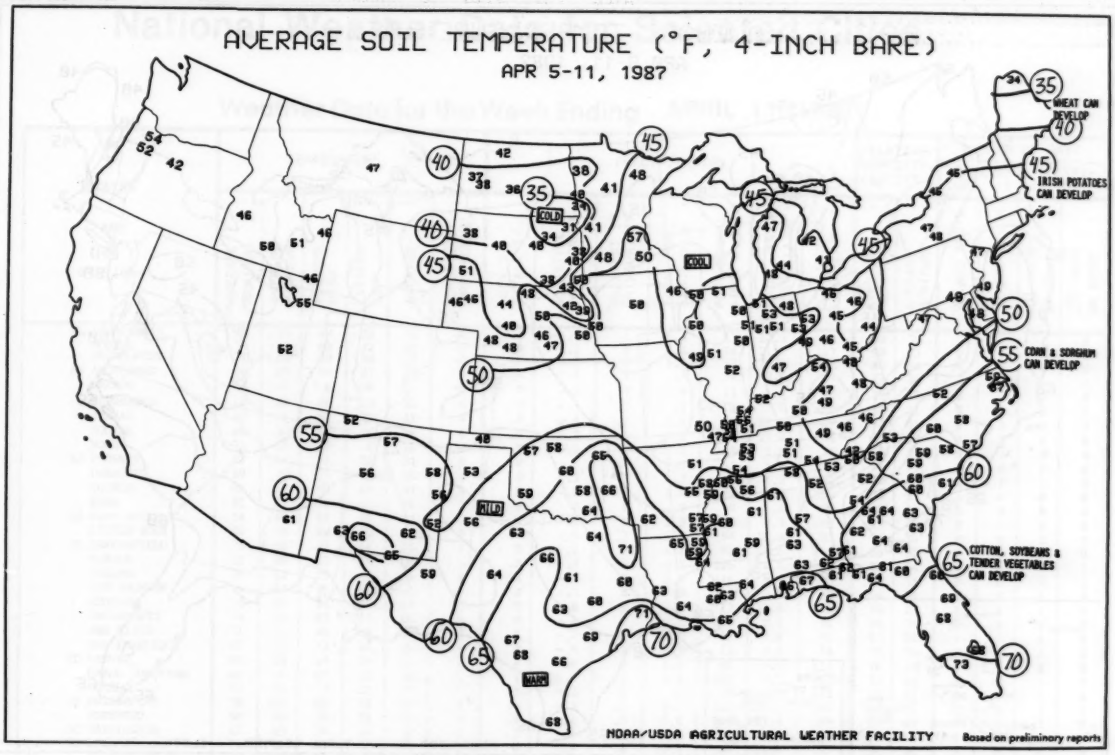
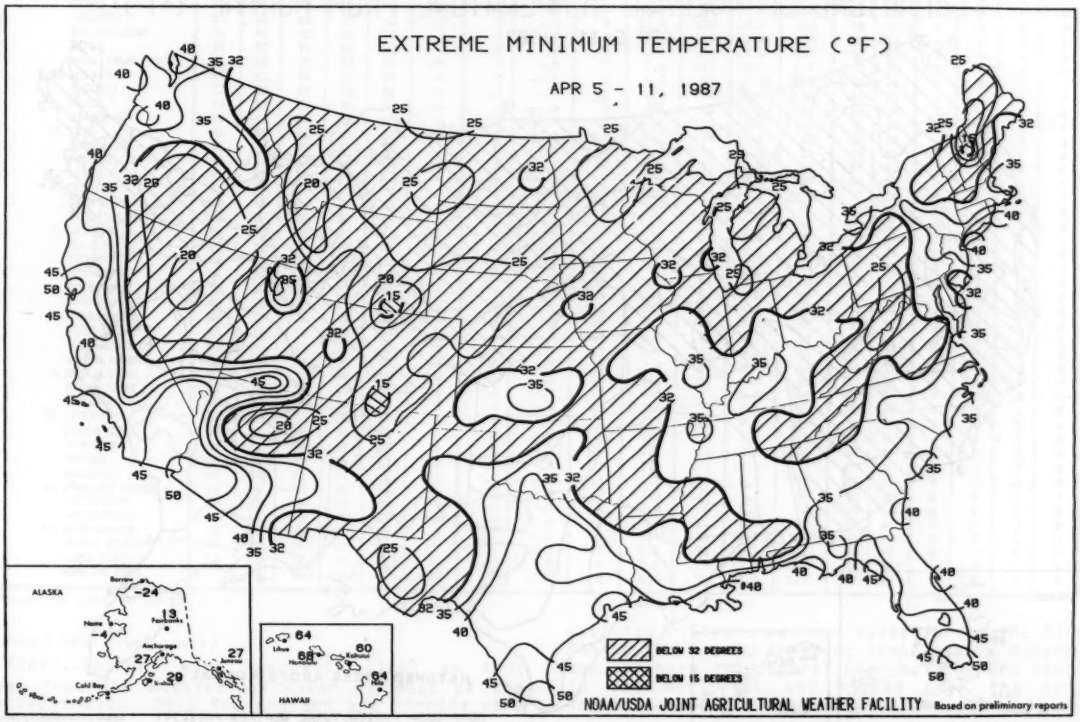
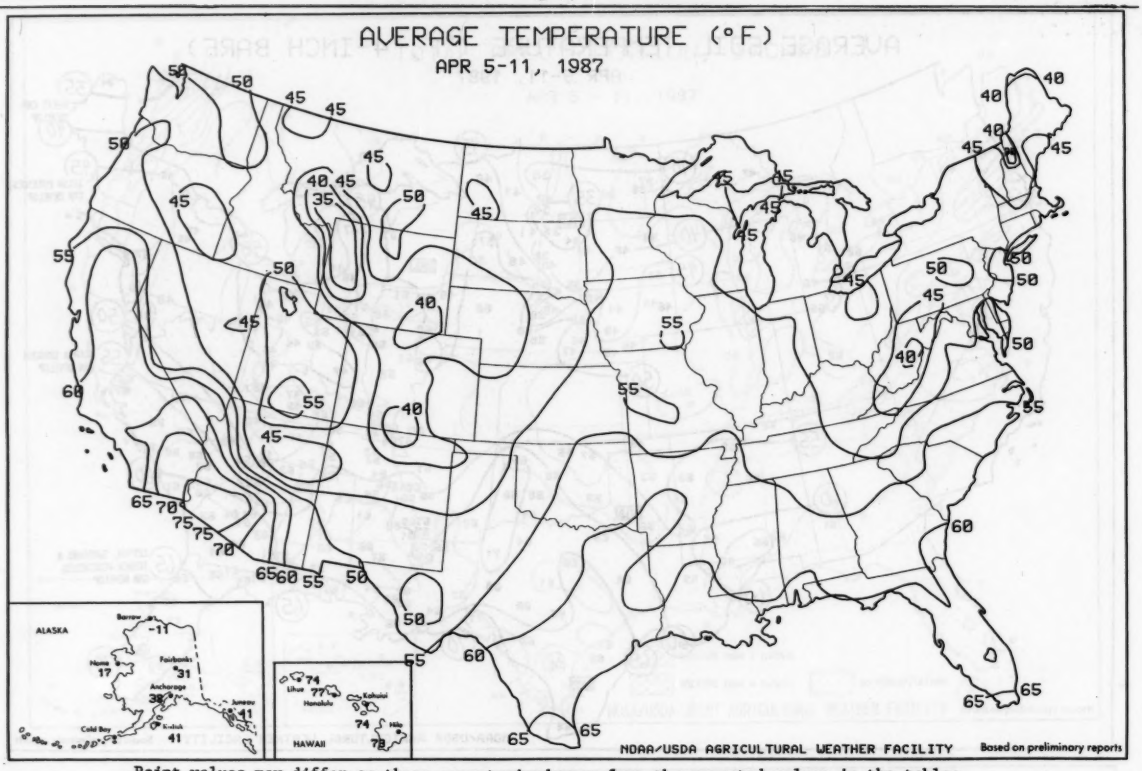

TOTAL PRECIPITATION, INCHES
APR 5 - 11, 1987
ALASKA
HAWAII
GREATER THAN 1 INCHES
GREATER THAN 4 INCHES
NO PRECIPITATION
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

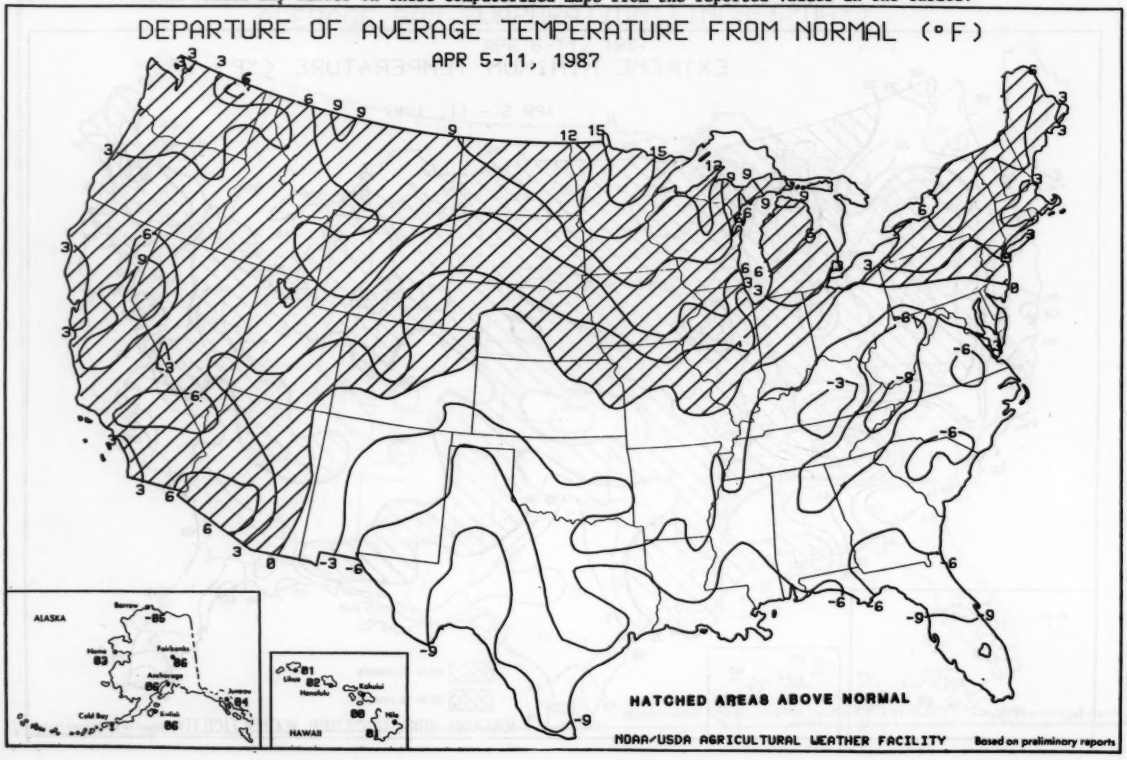

AVERAGE PAN EVAPORATION (INCHES/DAY)
APR 5-11, 1987
NOAA/USDA AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


AVERAGE SOIL TEMPERATURE (°F, 4-INCH BARE)
APR 5-11, 1987
WHEAT CAN DEVELOP
IRISH POTATOES CAN DEVELOP
CORN & SORGHUM CAN DEVELOP
COTTON, SOYBEANS & TENDER VEGETABLES CAN DEVELOP
COLD
WARM
NOAA/USDA AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


EXTREME MINIMUM TEMPERATURE (°F)
APR 5 - 11, 1987
ALASKA
HAWAII
BELOW 32 DEGREES
BELOW 15 DEGREES
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports



Point values may differ on these computerized maps from the reported values in the tables.



National Weather Data for Selected Cities

Weather Data for the Week Ending APRIL 11, 1987

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
															TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 1	PCT. NORMAL SINCE MAR. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	70	40	80	32	55	-6	.1	-1.1	.1	5.4	63	17.3	94	89	29	0	1	1	0
MOBILE	73	46	80	32	60	-7	0	-1.3	0	6.6	78	21.1	117	90	32	0	1	0	0
MONTGOMERY	71	45	79	34	58	-5	0	-1.1	0	5.5	72	22.5	138	86	34	0	0	0	0
AK ANCHORAGE	46	29	52	27	38	5	.1	-.1	.1	.3	34	2.1	84	77	35	0	6	1	0
BARROW	-4	-18	4	-24	-11	-5	T	-.1	T	T	14	.2	33	79	65	0	7	0	0
FAIRBANKS	41	20	46	13	31	6	T	-.1	T	.1	10	.8	53	68	31	0	7	0	0
JUNEAU	48	35	51	27	41	4	.3	-.4	.2	3.1	70	10.3	87	92	51	0	3	4	0
KODIAK	46	36	49	29	41	6	.6	-.2	.4	7.1	138	22.0	138	90	53	0	2	4	0
NOME	23	10	37	-4	16	3	T	-.1	T	.5	60	1.9	95	76	56	0	7	0	0
AZ PHOENIX	87	60	94	50	74	8	0	-.1	0	.3	33	3.0	136	47	13	3	0	0	0
PRESCOTT	69	35	75	26	52	4	T	-.2	T	.7	36	4.2	82	72	22	0	2	1	0
TUCSON	82	51	90	42	67	4	0	-.1	0	1.0	122	3.2	139	56	15	1	0	0	0
YUMA	91	61	96	54	76	7	0	0	0	T	0	.4	50	46	14	5	0	0	0
AR FORT SMITH	74	40	84	27	57	-2	T	-.9	T	3.9	73	9.9	102	85	23	0	1	0	0
LITTLE ROCK	72	48	80	36	60	0	.3	-.9	.3	3.5	54	11.8	83	65	39	0	0	2	0
CA BAKERSFIELD	78	50	87	44	64	3	0	-.2	0	1.1	97	3.6	113	85	32	0	0	0	0
EUREKA	61	48	63	43	54	5	.5	-.3	.5	6.7	106	16.6	90	89	64	0	0	2	1
FRESNO	78	52	83	47	65	6	0	-.3	0	2.4	116	5.7	95	88	35	0	0	0	0
LOS ANGELES	73	54	84	50	63	4	0	-.3	0	.9	43	2.9	38	94	54	0	0	0	0
REDDING	76	48	84	42	62	3	T	-.8	T	7.0	113	19.0	91	86	27	0	0	1	0
SACRAMENTO	76	48	83	44	62	5	T	-.4	T	3.2	121	8.6	91	95	36	0	0	0	0
SAN DIEGO	71	55	80	52	63	2	0	-.2	0	1.8	92	5.0	91	83	58	0	0	0	0
SAN FRANCISCO	67	49	77	48	58	4	T	-.4	T	2.0	61	8.3	74	95	56	0	0	0	0
CO DENVER	60	33	69	25	47	2	0	-.4	0	1.6	88	3.5	121	70	19	0	4	0	0
GRAND JUNCTION	63	36	67	32	50	1	T	-.2	T	2.0	203	3.5	167	71	24	0	1	1	0
PUEBLO	63	32	73	23	48	-1	T	-.2	T	.6	59	2.6	173	88	27	0	4	1	0
CT BRIDGEPORT	58	41	69	38	50	4	.5	-.3	.5	6.9	129	12.1	105	85	51	0	0	2	1
HARTFORD	58	38	78	33	48	2	.9	-.1	.5	6.8	120	13.4	109	90	49	0	0	3	0
DC WASHINGTON	61	43	78	35	52	-2	.1	-.6	.1	2.5	55	9.5	96	85	43	0	0	2	0
FL APALACHICOLA	71	50	77	38	61	-5	0	-.8	0	10.8	202	20.9	167	94	46	0	0	0	0
DAYTONA BEACH	75	48	82	36	61	-7	0	-.5	0	8.0	209	16.8	181	94	29	0	0	0	0
JACKSONVILLE	74	46	82	36	60	-7	0	-.7	0	6.4	142	17.0	155	88	27	0	0	0	0
KEY WEST	74	60	77	58	67	-10	T	-.3	T	9.7	590	11.2	207	89	53	0	0	1	0
MIAMI	75	54	82	48	64	-10	.1	-.5	.1	4.0	143	7.4	109	86	38	0	0	1	0
ORLANDO	74	48	80	38	61	-9	T	-.5	T	11.4	275	14.4	153	94	32	0	0	0	0
TALLAHASSEE	75	41	82	32	58	-7	0	-1.0	0	9.7	136	22.3	133	95	26	0	2	0	0
TAMPA	71	52	76	40	62	-9	T	-.4	T	12.2	294	17.0	183	93	40	0	0	0	0
WEST PALM BEACH	74	52	79	43	63	-10	T	-.6	T	7.8	213	10.2	113	87	33	0	0	0	0
GA ATLANTA	67	42	78	33	55	-5	T	-1.1	T	6.3	83	18.1	106	77	29	0	0	1	0
AUGUSTA	72	39	80	33	56	-5	.1	-.7	.1	4.6	74	20.7	146	86	27	0	0	1	0
MACON	72	43	81	35	58	-6	T	-.8	T	4.6	70	18.5	121	86	30	0	0	1	0
SAVANNAH	74	46	82	38	60	-4	0	-.7	0	5.5	110	18.5	164	70	24	0	0	0	0
HI HILO	81	66	82	64	73	1	.9	-2.3	.3	8.1	44	21.4	52	89	55	0	0	5	0
HONOLULU	85	70	86	68	77	2	T	-.4	T	.2	4	1.4	13	79	45	0	0	0	0
KAHULUI	85	63	87	60	74	0	0	-.3	0	.8	23	5.0	49	81	42	0	0	0	0
LIHUE	79	69	80	64	74	1	.2	-.7	.1	2.3	39	6.2	39	84	62	0	0	3	0
ID BOISE	65	34	74	23	50	3	T	-.2	T	2.0	143	4.1	100	75	24	0	3	1	0
LEWISTON	62	43	68	36	53	5	.1	-.1	.1	1.1	75	2.1	57	76	35	0	0	1	0
POCATELLO	62	35	66	27	48	6	T	-.2	T	.9	67	2.6	81	66	21	0	2	1	0
IL CHICAGO	61	32	74	23	47	1	.8	-.2	.6	2.3	57	5.0	72	87	36	0	3	2	1
MOLINE	66	34	75	30	50	3	T	-.8	T	2.7	65	4.5	64	76	27	0	4	2	0
PEORIA	66	38	73	33	52	4	.1	-.8	.1	2.1	50	4.4	61	75	27	0	0	2	0
QUINCY	66	38	75	32	52	3	.1	-.8	.1	1.6	35	3.8	52	75	31	0	1	1	0
ROCKFORD	65	36	74	28	51	6	.1	-.9	.1	2.0	50	3.8	58	78	29	0	2	2	0
SPRINGFIELD	66	38	73	33	52	1	.1	-.8	.1	2.3	51	4.5	58	74	26	0	0	2	0
IN EVANSVILLE	64	37	76	34	51	-3	.4	-.6	.4	2.9	47	7.1	59	92	37	0	0	1	0
FORT WAYNE	61	36	71	28	49	2	.6	-.2	.5	2.0	48	4.7	57	85	36	0	2	2	1
INDIANAPOLIS	62	38	73	32	50	1	.4	-.5	.3	2.3	46	5.1	51	88	36	0	1	2	0
SOUTH BEND	62	36	73	24	49	3	.5	-.5	.5	2.0	45	5.7	63	93	37	0	2	1	0
IA DES MOINES	67	38	77	30	53	6	.1	-.6	.1	3.1	96	4.9	92	73	26	0	1	2	0
SIOUX CITY	67	34	77	26	50	4	.1	-.4	.1	6.0	247	6.6	165	85	26	0	2	1	0
WATERLOO	67	33	77	25	50	6	.1	-.6	.1	2.6	77	4.0	78	85	26	0	3	2	0
KS CONCORDIA	64	37	74	29	51	1	T	-.5	T	8.3	324	9.8	245	79	29	0	1	0	0
DODGE CITY	61	37	68	33	49	-2	0	-.4	0	4.3	216	6.3	210	79	31	0	0	0	0
GOODLAND	59	31	66	25	45	-1	0	-.2	0	2.5	188	3.8	181	82	29	0	5	0	0
TOPEKA	67	36	78	26	52	0	.3	-.4	.3	6.2	193	10.0	192	85	26	0	1	2	0
WICHITA	65	40	75	31	53	-1	.2	-.3	.1	4.3	151	9.0	205	85	29	0	1	2	0
KY BOWLING GREEN	64	39	76	35	52	-3	.2	-.9	.2	2.7	37	9.5	61	90	36	0	0	1	0
LEXINGTON	59	39	71	33	49	-4	.1	-.9	.1	3.6	56	8.5	64	92	45	0	0	1	0
LOUISVILLE	62	41	75	37	51	-3	.2	-.8	.2	3.8	61	9.1	71	91	35	0	0	2	0
LA ALEXANDRIA	72	48	79	33	60	-5	.1	-1.2	.1	6.4	91	20.9	123	83	37	0	0	1	0
BATON ROUGE	73	48	79	33	61	-6	T	-1.3	T	6.3	96	21.3	132	94	32	0	0	0	0
LAKE CHARLES	72	49	77	39	61	-6	.1	-.8	0	5.0	114	17.5	142	94	38	0	0	2	0
NEW ORLEANS	73	48	79	43	61	-6	T	-1.0	T	4.7	74	20.9	127	92	37	0	0	1	0

Based on 1951-80 normals.

(Continued from front cover)

SATURDAY...Showers were generally light as they spread from the Mississippi River to most of the Atlantic coast. Only New England and Florida were excepted. Severe weather swept across the Midwest. Behind the front, freezing temperatures dipped into the northern and central Plains. Showers continued in the Northwest and spread over the northern Rockies and High Plains.

Weather Data for the Week Ending APRIL 11, 1987

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 1	PCT. NORMAL SINCE MAR. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	SHREVEPORT	75	45	86	31	60	-3	T	-1.1	T	1.8	33	11.8	91	84	29	0	1	0	0
ME	CARIBOU	49	33	65	25	41	7	.8	.2	.3	2.3	68	4.9	63	96	63	0	3	3	0
	PORTLAND	53	38	68	31	46	5	3.0	2.1	1.4	7.9	146	13.2	103	92	61	0	1	4	2
MD	BALTIMORE	60	39	76	33	49	-2	.1	-.7	.1	1.8	36	9.9	91	85	44	0	0	2	0
	SALISBURY	60	37	74	32	48	-4	T	-.8	T	4.3	82	13.7	114	96	40	0	1	0	0
MA	BOSTON	51	41	65	40	46	1	4.0	3.1	2.2	10.3	186	18.3	139	85	63	0	0	4	2
	CHATHAM	49	39	57	37	44	2	2.3	1.3	1.2	7.7	141	18.0	129	94	81	0	0	4	2
MI	ALPENA	60	31	68	23	45	8	T	-.6	T	1.4	51	3.2	55	86	30	0	5	0	0
	DETROIT	59	39	69	32	49	4	1.0	.2	.7	3.9	105	6.7	93	89	44	0	1	3	1
	FLINT	59	35	72	28	47	5	.6	-.1	.6	2.5	79	4.1	66	93	39	0	2	1	1
	GRAND RAPIDS	62	37	72	30	50	6	T	-.8	T	1.6	41	2.6	35	82	28	0	2	1	0
	HOUGHTON LAKE	63	33	73	25	48	10	T	-.6	T	1.0	36	2.7	48	77	23	0	4	0	0
	LANSING	59	35	71	28	47	5	.4	-.3	.4	1.7	49	3.0	46	89	38	0	2	2	0
	MARQUETTE	59	29	74	26	44	8	0	-.6	0	3.2	108	6.2	100	84	31	0	6	0	0
	MUSKEGON	60	36	71	26	48	6	T	-.7	T	1.9	52	4.1	53	79	34	0	2	0	0
	SAULT STE. MARIE	62	32	70	21	47	12	0	-.5	0	1.3	45	3.8	57	76	27	0	3	0	0
MN	ALEXANDRIA	67	37	76	31	52	14	.1	-.4	.1	1.4	74	2.7	79	84	25	0	1	2	0
	DULUTH	65	31	76	23	48	13	0	-.5	0	.6	25	1.6	36	81	26	0	4	0	0
	INT'L FALLS	69	32	77	26	51	16	T	-.3	T	1.0	64	1.8	58	83	22	0	4	1	0
	MINNEAPOLIS	69	38	78	31	53	11	T	-.4	T	.6	27	1.4	35	74	21	0	1	0	0
	ROCHESTER	67	35	75	30	51	10	.1	-.5	.1	1.4	53	2.2	54	74	22	0	3	1	0
MS	GREENWOOD	72	42	80	30	57	-5	.2	-1.2	.2	5.6	66	15.2	84	92	30	0	1	1	0
	JACKSON	73	42	80	28	57	-6	.1	-1.3	.1	6.0	78	20.9	124	98	33	0	1	1	0
	MERIDIAN	74	42	81	29	58	-5	T	-1.3	T	4.4	49	24.4	133	95	30	0	1	1	0
MO	CAPE GIRARDEAU	68	39	76	32	54	—	.3	-.8	.3	2.8	43	6.9	55	93	36	0	1	1	0
	COLUMBIA	66	40	76	29	53	0	.3	-.6	.3	2.1	46	5.1	61	81	35	0	1	1	0
	KANSAS CITY	67	39	77	28	53	0	.1	-.6	.1	3.0	79	6.0	97	73	25	0	1	1	0
	SAINT LOUIS	66	41	75	34	54	0	.3	-.5	.3	2.5	54	5.9	70	76	32	0	0	1	0
	SPRINGFIELD	67	36	76	26	52	-2	.2	-.8	.1	4.1	84	11.4	133	81	33	0	1	2	0
MT	BILLINGS	64	37	71	35	50	9	.3	-.2	.2	1.6	99	2.1	64	73	22	0	0	2	0
	GLASGOW	59	35	71	26	47	8	.1	0	.1	1.4	282	1.6	145	85	39	0	2	3	0
	GREAT FALLS	62	34	67	28	48	8	T	-.3	T	1.8	133	2.1	70	66	23	0	3	0	0
	HAVRE	63	31	70	26	47	7	T	-.2	T	1.1	122	1.3	68	85	26	0	5	1	0
	HELENA	60	33	69	25	47	7	T	-.2	T	1.2	120	1.2	57	81	34	0	3	1	0
	KALISPELL	56	31	64	25	44	3	.3	.1	.1	3.2	275	4.5	118	89	38	0	4	5	0
	MILES CITY	62	37	73	25	49	8	.2	-.1	.1	1.0	103	1.2	55	72	26	0	2	2	0
	MISSOULA	59	33	68	26	46	4	.2	0	.1	1.5	130	2.1	64	87	36	0	3	4	0
NE	GRAND ISLAND	62	33	72	28	48	1	0	-.5	0	6.6	282	7.4	206	83	27	0	3	0	0
	LINCOLN	66	33	77	26	50	2	T	-.6	T	6.5	229	7.1	158	83	27	0	3	0	0
	NORFOLK	64	34	75	27	49	3	T	-.4	T	7.3	332	8.3	237	85	27	0	4	1	0
	NORTH PLATTE	62	26	71	24	44	-1	0	-.4	0	1.7	104	3.4	136	85	20	0	7	0	0
	OMAHA	65	40	74	34	52	4	.1	-.6	.1	4.2	150	4.9	111	69	38	0	0	1	0
	SCOTTSBLUFF	62	27	72	21	45	1	T	-.3	T	1.7	119	3.9	177	81	21	0	6	0	0
	VALENTINE	62	28	74	24	45	3	T	-.4	T	2.5	185	3.9	195	75	23	0	6	0	0
NV	ELY	61	27	67	24	44	5	.1	-.1	.1	1.1	94	2.5	96	83	29	0	6	1	0
	LAS VEGAS	80	54	88	47	67	6	0	-.1	0	.6	124	2.2	157	54	18	0	0	0	0
	RENO	69	38	72	31	54	9	0	-.1	0	1.1	118	2.3	77	72	17	0	1	0	0
	WINNEMUCCA	67	28	74	20	47	4	T	-.2	T	1.3	146	2.4	100	69	17	0	6	0	0
NH	CONCORD	55	36	73	28	45	4	2.3	1.6	1.7	6.4	157	9.4	101	95	56	0	3	3	1
NJ	ATLANTIC CITY	60	35	75	32	48	-1	.8	0	.8	6.9	130	14.7	121	93	39	0	3	1	1
NM	ALBUQUERQUE	62	35	75	31	48	-5	T	-.1	T	.6	92	1.9	136	72	24	0	1	1	0
	CLOVIS	61	36	84	33	48	-6	T	-.1	T	.3	39	2.2	138	75	35	0	0	2	0
	ROSWELL	67	37	84	30	52	-6	.1	0	.1	.4	78	2.7	208	81	31	0	2	1	0
NY	ALBANY	58	39	74	32	48	5	1.9	1.2	.8	4.3	105	8.8	102	98	56	0	1	3	2
	BINGHAMTON	55	39	71	36	47	6	.4	-.3	.3	3.9	96	7.6	86	84	48	0	0	3	0
	BUFFALO	55	40	74	36	48	5	.5	-.2	.4	5.2	127	9.0	95	96	54	0	0	3	0
	NEW YORK	60	45	74	40	52	3	.6	-.3	.5	7.2	131	13.5	116	84	52	0	0	3	0
	ROCHESTER	58	39	75	32	48	5	.9	.3	.5	3.6	105	6.1	75	89	52	0	1	4	0
	SYRACUSE	59	41	75	37	50	7	.4	-.4	.2	3.1	71	6.8	72	87	47	0	0	4	0
NC	ASHEVILLE	60	34	72	29	47	-7	T	-.8	T	4.2	68	13.8	110	86	35	0	2	0	0
	CHARLOTTE	67	42	76	36	55	-4	0	-.8	0	3.8	62	13.9	101	70	27	0	0	0	0
	GREENSBORO	64	38	75	33	51	-5	T	-.8	T	3.7	72	12.2	103	82	33	0	0	0	0
	HATTERAS	63	44	74	37	54	-4	T	-.7	T	11.1	216	26.0	186	92	46	0	0	0	0
	NEW BERN	69	43	78	34	56	-4	T	-.6	T	4.3	91	15.4	121	88	32	0	0	1	0
	RALEIGH	67	39	77	32	53	-4	.1	-.6	.1	3.3	70	15.4	132	85	31	0	1	1	0
	WILMINGTON	69	42	79	33	56	-5	0	-.7	0	2.9	57	13.9	114	87	34	0	0	0	0
ND	BISMARCK	61	32	77	29	47	8	.1	-.2	.1	1.5	130	3.3	157	86	33	0	5	2	0
	FARGO	65	34	77	30	49	11	T	-.4	T	.5	36	1.6	70	88	33	0	3	1	0
	GRAND FORKS	61	34	73	31	48	11	T	-.3	T	.4	36	1.9	79	94	51	0	2	1	0
	WILLISTON	60	34	73	26	47	9	.2	-.1	.1	1.9	201	2.4	126	85	37	0	2	3	0
OH	AKRON-CANTON	54	35	66	29	45	-1	.2	-.5	.1	4.9	108	7.1	77	93	52	0	2	2	0
	CINCINNATI	59	38	70	33	48	-2	.4	-.5	.2	5.4	103	7.9	71	90	46	0	0	2	0
	CLEVELAND	54	36	67	28	45	-1	.5	-.3	.3	5.7	136	8.2	93	94	51	0	2	3	0
	COLUMBUS	59	37	67	32	48	-1	.2	-.6	.1	3.0	67	4.7	51	94	48	0	2	3	0

Based on 1951-80 normals.

Weather Data for the Week Ending APRIL 11, 1987

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR. 1	PCT. NORMAL SINCE MAR. 1	TOTAL, IN., SINCE JAN. 1	PCT. NORMAL SINCE JAN. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	58	38	67	32	48	-1	.8	0	.5	3.2	76	5.3	60	92	48	0	1	4	1
TOLEDO	59	36	70	27	48	3	.8	.1	.4	3.0	82	5.4	72	93	43	0	3	3	0
YOUNGSTOWN	56	36	70	31	46	1	.1	-.7	.1	4.5	100	6.9	73	93	50	0	2	2	0
OK OKLAHOMA CITY	69	44	80	36	57	-1	0	-.6	0	2.3	80	8.9	171	66	26	0	0	0	0
TULSA	72	45	82	33	59	0	.2	-.7	.2	2.4	53	9.5	125	71	21	0	0	1	0
OR ASTORIA	56	42	62	38	49	3	1.6	1.1	.5	10.2	279	25.6	235	95	58	0	0	6	2
BURNS	60	33	64	23	46	5	0	-.2	0	1.7	126	3.9	91			0	4	0	0
MEDFORD	66	40	73	34	53	4	T	-.2	T	1.7	77	6.9	88	88	38	0	0	1	0
PENDLETON	61	40	69	33	50	2	T	-.2	T	1.4	101	3.6	86	79	37	0	0	1	0
PORTLAND	59	43	63	41	51	2	.6	0	.2	5.8	127	15.3	105	94	55	0	0	6	0
SALEM	58	38	64	33	48	1	1.1	.4	.4	5.0	94	16.2	96	96	57	0	0	6	0
PA ALLENTOWN	60	38	74	36	49	1	.8	-.2	.3	4.9	92	9.8	84	90	47	0	0	4	0
ERIE	53	38	66	31	45	3	.4	-.4	.2	5.2	125	8.4	98	92	55	0	1	3	0
HARRISBURG	59	38	74	33	49	-1	1.1	.3	.6	3.3	70	8.5	82	85	29	0	0	4	1
PHILADELPHIA	61	39	75	33	50	-1	.8	0	.7	3.2	62	9.0	81	88	45	0	0	3	1
PITTSBURGH	57	36	69	32	46	-1	T	-.8	T	4.5	94	7.5	75	79	43	0	3	2	0
SCRANTON	57	39	73	33	48	3	.8	.1	.3	4.3	116	7.6	95	86	47	0	0	3	0
RI PROVIDENCE	55	39	70	35	47	1	1.4	.5	.8	9.1	157	14.1	104	96	59	0	0	4	1
SC CHARLESTON	72	45	81	34	59	-4	0	-.6	0	5.6	104	17.5	146	84	28	0	0	0	0
COLUMBIA	70	39	78	34	55	-7	T	-.9	T	5.5	83	19.2	128	86	29	0	0	0	0
FLORENCE	70	41	79	35	56	-6	0	-.7	0	3.2	61	13.8	113	83	29	0	0	0	0
GREENVILLE	68	39	75	32	53	-5	T	-1.1	T	5.4	69	17.4	106	81	31	0	1	0	0
SD ABERDEEN	64	32	76	28	48	8	.1	-.3	.1	1.7	110	3.0	111	90	27	0	3	1	0
HURON	65	33	76	29	49	7	T	-.4	T	4.8	261	6.1	203	89	30	0	2	1	0
RAPID CITY	61	30	75	26	46	4	T	-.4	T	1.1	71	2.9	112	82	24	0	6	0	0
SIOUX FALLS	65	30	74	24	48	5	.1	-.4	.1	3.4	144	3.8	100	85	26	0	5	2	0
TN CHATTANOOGA	67	37	78	30	52	-6	T	-1.1	T	5.6	68	19.1	106	91	31	0	1	1	0
KNOXVILLE	62	37	74	31	50	-8	.1	-.8	.1	4.0	57	13.3	84	88	37	0	2	1	0
MEMPHIS	71	44	79	34	58	-2	.4	-1.0	.2	3.8	50	11.4	70	82	31	0	0	2	0
NASHVILLE	66	38	79	30	52	-5	.1	-1.0	.1	1.3	18	7.7	49	90	35	0	1	1	0
TX ABILENE	69	43	89	35	56	-7	.1	-.4	.1	1.6	91	5.7	150	81	31	0	0	1	0
AMARILLO	62	35	81	27	48	-6	T	-.1	T	1.0	89	3.1	141	88	31	0	2	1	0
AUSTIN	74	50	89	45	62	-5	.1	-.5	.1	1.5	57	5.3	79	87	36	0	0	1	0
BEAUMONT	73	49	79	45	61	-6	.1	-.8	.1	1.2	27	17.0	134	94	37	0	0	2	0
BROWNSVILLE	73	57	82	52	65	-9	1.4	1.1	1.1	2.0	211	6.7	181	97	61	0	0	3	1
CORPUS CHRISTI	75	52	89	43	63	-8	1.0	.7	.9	1.5	115	9.7	220	97	46	0	0	3	1
DEL RIO	75	48	93	40	62	-9	.2	-.2	.2	1.0	82	4.6	177			2	0	1	0
EL PASO	72	39	83	30	55	-6	T	-.1	T	.5	126	1.0	83	65	18	0	1	0	0
FORT WORTH	73	46	86	42	59	-4	T	-.9	T	1.7	47	6.6	92	85	32	0	0	1	0
GALVESTON	68	54	73	48	61	-6	.1	-.5	0	.7	24	9.4	113	85	44	0	0	2	0
HOUSTON	74	50	85	43	62	-5	.5	-.3	.4	1.4	35	8.1	76	92	33	0	0	2	0
LUBBOCK	65	38	85	31	51	-7	T	-.2	T	.5	39	2.5	119	85	31	0	1	1	0
MIDLAND	68	38	86	30	53	-9	T	-.1	T	1.3	185	3.3	206	88	29	0	1	2	0
SAN ANGELO	70	41	89	32	56	-9	T	-.3	T	1.8	142	6.9	256	89	32	0	1	1	0
SAN ANTONIO	74	47	91	42	61	-7	.3	-.3	.3	1.4	63	7.3	133	91	36	1	0	1	0
VICTORIA	75	51	86	43	63	-7	T	-.5	T	.4	21	7.1	115	86	37	0	0	0	0
WACO	73	45	90	38	59	-6	.4	-.4	.4	2.1	65	6.0	88	89	35	1	0	1	0
WICHITA FALLS	71	42	86	38	56	-5	T	-.6	T	1.9	71	7.9	172	85	29	0	0	1	0
UT BLANDING	60	35	65	32	48	3	.2	0	.2	2.1	199	4.6	135	99	58	0	1	1	0
CEDAR CITY	63	33	70	28	48	3	.2	-.1	.1	2.1	148	3.9	134	90	34	0	4	2	0
SALT LAKE CITY	62	42	67	36	52	5	.1	-.4	.1	1.7	65	4.6	88	69	30	0	0	1	0
VT BURLINGTON	56	36	69	30	46	7	.3	-.3	.3	1.9	60	4.3	64	92	53	0	2	3	0
VA NORFOLK	62	42	76	34	52	-4	T	-.6	T	2.8	56	15.8	133	90	40	0	0	1	0
RICHMOND	62	38	74	29	50	-5	.1	-.6	0	2.2	47	10.3	94	89	38	0	2	3	0
ROANOKE	61	38	71	33	50	-4	T	-.7	T	5.1	106	14.2	131	86	39	0	0	1	0
WA COLVILLE	58	37	63	27	48	4	.5	.3	.3	3.8	242	6.0	115	82	56	0	2	3	0
QUILLAYUTE	54	40	57	38	47	3	3.8	1.8	1.3	17.1	113	39.5	95	99	62	0	0	7	4
SEATTLE-TACOMA	56	42	60	39	49	2	1.0	.4	.3	6.8	149	14.9	101	95	55	0	0	6	0
SPOKANE	56	37	62	29	47	3	.5	.3	.3	2.7	156	5.1	88	84	38	0	2	2	0
YAKIMA	61	35	65	28	48	1	0	-.1	0	1.4	180	3.2	110	83	31	0	2	0	0
WV BECKLEY	49	34	65	27	41	-7	.2	-.7	.1	3.3	62	10.1	85	91	54	0	4	3	0
CHARLESTON	55	36	71	31	46	-7	.4	-.4	.2	3.2	60	9.7	82	96	55	0	1	3	0
HUNTINGTON	58	37	72	33	47	-7	.5	-.4	.4	4.2	78	10.0	88	91	44	0	0	4	0
PARKERSBURG	57	35	69	30	46	-6	T	-.8	T	3.4	70	6.5	63	94	50	0	3	2	0
WI GREEN BAY	63	35	74	28	49	8	T	-.6	T	1.7	62	2.6	52	86	34	0	2	0	0
LA CROSSE	68	38	78	30	53	9	T	-.6	T	2.3	79	3.7	79	78	26	0	1	1	0
MADISON	64	34	74	26	49	6	.1	-.6	0	2.0	64	3.3	62	85	31	0	3	2	0
MILWAUKEE	57	40	73	33	48	7	.3	-.5	.3	2.1	55	4.5	67	80	46	0	0	1	0
WAUSAU	65	36	75	30	51	11	T	-.6	T	1.2	41	1.8	38	76	23	0	2	1	0
WY CASPER	60	28	66	25	44	5	.1	-.2	.1	1.5	107	4.4	176	86	20	0	6	2	0
CHEYENNE	55	26	63	21	40	1	.2	-.1	.2	1.4	108	2.4	114	85	23	0	6	1	0
LANDER	59	33	64	27	46	6	.1	-.4	.1	2.4	131	5.0	172	70	23	0	3	2	0
SHERIDAN	61	30	70	27	46	6	.1	-.3	.1	1.6	92	2.8	88	87	27	0	6	1	0
PR SAN JUAN	87	73	90	72	80	2	3.1	2.4	1.8	8.3	255	10.7	129	92	74	1	0	3	2

Based on 1951-80 normals.

LAST DATE OF DATA COLLECTION PERIOD IS 4-11-1987
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV FROM L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV FROM L YR	CUM DEV FROM NORM PRCT	CUM DEV FROM L YR PRCT
AL BIRMINGHAM	BHM	69	32	41	2679	-102	204	-4	8
AL MOBILE	MOB	39	24	26	1698	11	174	1	11
AL MONTGOMERY	MGM	58	25	27	2152	-86	161	-4	8
AK ANCHORAGE	ANC	189	-39	-131	7964	-1434	-903	-15	-10
AK BARROW	BRW	527	27	-39	15858	-926	-468	-6	-3
AK FAIRBANKS	FAI	239	-42	-183	11525	-1445	-862	-11	-7
AK JUNEAU	JNU	164	-32	-58	6546	-1154	-848	-15	-11
AK KODIAK	ADQ	167	-31	-107	6404	-802	-699	-11	-10
AK NOME	OME	339	-20	-69	10673	-1362	-355	-11	-3
AZ FLAGSTAFF	FLG	163	-15	8	6282	107	703	2	13
AZ PHOENIX	PHX	2	-14	2	886	-534	130	-38	17
AZ PRESCOTT	PRC	90	-32	2	4261	-103	693	-2	19
AZ TUCSON	TUS	10	-17	10	1506	-180	356	-11	31
AZ WINSLOW	INW	71	-28	4	4374	-125	484	-3	12
AZ YUMA	YUM	0	-13	0	667	-300	189	-31	40
AR FORT SMITH	FSM	54	6	28	3166	-212	143	-6	5
AR LITTLE ROCK	LRK	38	-2	24	2949	-133	252	-4	9
CA BAKERSFIELD	BFL	16	-24	-15	2120	106	133	5	7
CA EUREKA	EKA	72	-40	-13	3070	-657	-106	-18	-3
CA FRESNO	FAT	9	-44	-9	2049	-438	178	-18	10
CA LOS ANGELES	LAX	21	-21	-17	1007	-328	85	-25	9
CA SACRAMENTO	SAC	24	-39	-17	2329	-209	142	-8	6
CA SAN DIEGO	SAN	18	-16	-9	979	-120	167	-11	21
CA SAN FRANCISCO	SFO	47	-30	-10	2224	-387	83	-15	4
CA STOCKTON	SCK	23	-36	-17	2348	-155	2	-6	0
CO DENVER	DEN	128	-12	17	5256	-132	149	-2	3
CO GRAND JUNCTION	GJT	104	-8	27	5140	-157	579	-3	13
CO PUEBLO	PUB	121	4	39	5127	77	232	2	5
CT BRIDGEPORT	BDR	106	-27	-38	4918	-75	-26	-2	-1
CT HARTFORD	BDL	117	-16	-35	5676	-13	62	0	1
DE WILMINGTON	ILG	113	8	4	4547	-99	286	-2	5
DC WASHINGTON	DCA	90	14	4	3959	34	207	1	6
FL APALACHICOLA	AQQ	33	21	27	1139	-259	-87	-19	-7
FL DAYTONA BEACH	DAB	28	22	24	714	-185	-114	-21	-14
FL FORT MEYER	FMY	18	18	18	225	-215	-95	-49	-30
FL JACKSONVILLE	JAX	33	26	19	1326	-74	61	-5	5
FL KEY WEST	EYW	1	1	1	41	-75	-70	-65	-63
FL MIAMI	MIA	14	14	14	133	-65	-104	-33	-44
FL ORLANDO	MCO	28	28	26	472	-186	-146	-28	-24
FL TALLAHASSEE	TLH	47	29	25	1586	-47	-17	-3	-1
FL TAMPA	TPA	24	24	22	454	-285	-175	-39	-28
FL WEST PALM BEACH	PBI	19	19	19	185	-76	-110	-30	-39
GA ATLANTA	ATL	72	28	37	2750	-169	335	-6	14
GA AUGUSTA	AGS	62	29	31	2365	-148	234	-6	11
GA MACON	MCN	53	31	27	2228	-28	208	-1	10
GA SAVANNAH	SAV	37	28	28	1742	-167	146	-9	9
HI HILO-HAWAII	ITO	0	0	0	0	0	0	**	**
HI HONOLULU-OAHU	HNL	0	0	0	0	0	0	**	**
HI KAHULUI-MAUI	OGG	0	0	0	1	1	1	**	**
HI LIHUE-KAUAI	LIH	0	0	0	0	0	0	**	**
ID BOISE	BOI	107	-23	9	5211	26	-754	1	-13
ID LEWISTON	LWS	85	-33	3	4563	-315	-697	-6	-13
ID POCATELLO	PIH	117	-42	-3	6241	-51	-475	-1	-7
IL CHICAGO	ORD	126	-7	28	5415	-511	-763	-9	-12
IL MOLINE	MLI	103	-21	13	5428	-649	-732	-11	-12
IL PEORIA	PIA	91	-26	12	5163	-649	-574	-11	-10
IL QUINCY	UIN	87	-19	30	4869	-571	-503	-10	-9
IL ROCKFORD	RFD	100	-42	1	5823	-697	-675	-9	-10
IL SPRINGFIELD	SPI	91	-11	32	4927	-382	-271	-7	-5
IN EVANSVILLE	EVV	98	21	50	4277	-209	85	-5	2
IN FORT WAYNE	FWA	113	-17	6	5506	-314	-191	-5	-3
IN INDIANAPOLIS	IND	103	-5	22	4983	-289	-75	-5	-1
IN SOUTH BEND	SBN	114	-21	-2	5612	-231	-201	-4	-3
IA DES MOINES	DSM	85	-40	-4	5393	-762	-1010	-12	-16
IA DUBUQUE	DBQ	99	-58	-11	6097	-716	-1129	-11	-16
IA SIOUX CITY	SUX	101	-31	9	5643	-879	-948	-13	-14
IA WATERLOO	ALO	101	-48	-4	6191	-810	-1051	-12	-15
KS CONCORDIA	CNK	97	-9	36	4638	-411	-372	-8	-7
KS DODGE CITY	DDC	109	15	43	4495	-253	-48	-5	-1
KS GOODLAND	GLD	140	6	55	5083	-489	-171	-9	-3
KS TOPEKA	TOP	91	-2	30	4541	-490	-294	-10	-6
KS WICHITA	ICT	85	5	29	4348	-204	51	-4	1
KY BOWLING GREEN	BWG	93	23	52	3931	-188	251	-4	7
KY LEXINGTON	LEX	111	24	42	4344	-177	268	-4	6
KY LOUISVILLE	SDF	95	18	44	4084	-284	201	-5	5
LA ALEXANDRIA	AEX	41	23	29	1962	17	334	1	21
LA BATON ROUGE	BTR	30	16	20	1562	-103	169	-6	12
LA LAKE CHARLES	LCH	32	22	21	1594	23	214	1	16
LA NEW ORLEANS	MSY	27	19	12	1428	-54	134	-4	10
LA SHREVEPORT	SHV	38	14	30	2341	107	464	5	25
ME CARIBOU	CAR	167	-58	-63	8628	94	174	1	2
ME PORTLAND	PWM	135	-38	-40	6533	-97	387	-1	5
MD BALTIMORE	BWI	109	15	6	4360	-53	151	-1	4
MD SALISBURY	SBY	117	25	39	4169	45	379	1	10
MA BOSTON	BOS	128	-3	-21	5222	146	287	3	6
MA CHATHAM	CQX	144	-13	-7	5065	-97	261	-2	5
MI ALPENA	APN	135	-59	-35	6834	-595	-457	-8	-6
MI DETROIT	DTW	113	-38	-3	5570	-428	-347	-7	-6
MI FLINT	FNT	121	-35	-8	5950	-452	-431	-7	-7
MI GRAND RAPIDS	GRR	105	-47	-25	5922	-373	-396	-6	-6
MI HOUGHTON LAKE	HTL	116	-68	-50	6745	-668	-513	-9	-7
MI LANSING	LAN	123	-29	-6	6011	-338	-462	-5	-7
MI MARQUETTE	MQT	145	-74	-39	7851	-548	-749	-7	-9
MI MUSKEGON	MKG	117	-42	-6	5861	-369	-306	-6	-5
MI SAULT ST MARIE	SSM	126	-86	-65	7378	-774	-773	-9	-9
MN ALEXANDRIA	AXN	88	-103	-28	6995	-1418	-1582	-17	-18
MN DULUTH	DLH	117	-95	-46	7864	-946	-1255	-11	-14
MN INT'L FALLS	INL	98	-117	-63	8289	-1268	-1309	-13	-14
MN MINNEAPOLIS	MSP	79	-81	-36	6324	-1096	-1434	-15	-18
MN ROCHESTER	RST	97	-72	-27	6790	-819	-1272	-11	-16
MN SAINT CLOUD	STC	93	-89	-26	7088	-1219	-1585	-15	-18
MS GREENWOOD	GWO	56	23	33	2496	-165	238	-6	11
MS JACKSON	JAN	56	28	34	2268	-83	119	-4	6
MS MERIDIAN	MEI	51	21	28	2275	-152	67	-6	3
MO CAPE GIRARDEAU	CGI	77	10	44	3870	-354	124	-8	3
MO COLUMBIA	COU	83	-8	36	4496	-414	-186	-8	-4
MO KANSAS CITY	MCI	82	-18	22	4564	-434	-488	-9	-10
MO SAINT LOUIS	STL	78	-4	37	4281	-395	22	-8	1
MO SPRINGFIELD	SGF	93	13	41	4194	-288	37	-5	1
MT BILLINGS	BIL	101	-62	11	5670	-768	-633	-12	-10
MT GLASGOW	GGW	123	-61	19	6702	-1426	-1500	-18	-18
MT GREAT FALLS	GTF	118	-59	-7	5756	-1123	-1313	-16	-19
MT HAVRE	HVR	125	-55	10	6544	-1277	-1165	-16	-15
MT HELENA	HLN	128	-51	9	6855	-349	-789	-5	-10

LAST DATE OF DATA COLLECTION PERIOD IS 4-11-1987
ACCUMULATIONS ARE FROM JULY 1
** = NORMAL LESS THAN 100 OR RATIO INCALCULABLE

STATE CITY	CALL	WEEK TOTAL	WEEK DEV FROM NORM	WEEK DEV FROM L YR	CUM TOTAL	CUM DEV FROM NORM	CUM DEV FROM L YR	CUM DEV FROM NORM PRCT	CUM DEV FROM L YR PRCT
MT KALISPELL	FCA	147	-28	29	7017	-328	-646	-4	-8
MT MILES CITY	MLS	108	-56	18	6189	-1094	-945	-15	-13
MT MISSOULA	MSO	133	-31	8	6768	-126	-495	-2	-7
NE GRAND ISLAND	GRI	120	-8	29	5292	-777	-519	-13	-9
NE LINCOLN	LNK	104	-17	21	5117	-886	-648	-15	-11
NE NORFOLK	OFK	113	-25	19	5569	-987	-797	-15	-13
NE NORTH PLATTE	LBF	145	3	32	5537	-791	-778	-13	-12
NE OMAHA	OMA	87	-27	7	5198	-650	-868	-11	-14
NE SCOTTSBLUFF	BFF	141	-9	30	5842	-227	-496	-4	-8
NE VALENTINE	VTN	138	-18	25	6830	-698	-814	-10	-12
NV ELY	ELY	144	-40	-9	6532	-80	375	-1	6
NV LAS VEGAS	LAS	8	-31	-7	2234	-210	491	-9	28
NV RENO	RNO	77	-66	-18	4790	-459	127	-9	3
NV WINNEMUCCA	WMC	121	-32	10	5657	53	284	1	4
NH CONCORD	CON	136	-31	-38	6696	-48	200	-1	3
NJ ATLANTIC CITY	ACY	118	4	2	4786	44	383	1	7
NM ALBUQUERQUE	ABQ	115	29	74	4462	290	897	7	25
NM CLOVIS	CVS	115	38	66	3882	24	376	1	11
NM ROSWELL	ROW	92	48	76	3472	417	770	14	28
NY ALBANY	ALB	114	-36	-39	6289	-40	133	-1	2
NY BINGHAMTON	BGM	123	-43	-58	6168	-432	-236	-7	-4
NY BUFFALO	BUF	121	-36	-41	5848	-289	-44	-5	-1
NY NEW YORK	LGA	88	-22	-27	4389	-244	32	-5	1
NY ROCHESTER	ROC	116	-37	-43	6094	9	86	0	1
NY SYRACUSE	SYR	102	-51	-55	6097	-56	115	-1	2
NC ASHEVILLE	AVL	123	43	60	3990	-16	267	0	7
NC CAPE HATTERAS	HAT	78	24	41	2399	-151	296	-6	14
NC CHARLOTTE	CLT	72	24	42	3123	-96	292	-3	10
NC GREENSBORO	GSO	97	33	48	3719	26	372	1	11
NC NEW BERN	BNN	61	21	29	2648	-121	390	-4	17
NC RALEIGH DURHAM	RDU	82	28	39	3393	4	409	0	14
NC WILMINGTON	ILM	63	31	36	2410	-11	429	0	22
ND BISMARCK	BIS	125	-59	-5	7256	-1020	-906	-12	-11
ND FARGO	FAR	107	-82	-14	7302	-1271	-1434	-15	-16
ND GRAND FORKS	GFK	121	-78	-6	7859	-1144	-1379	-13	-15
ND WILLISTON	ISN	126	-63	7	7247	-1165	-886	-14	-11
OH AKRON-CANTON	CAK	140	7	27	5461	-236	15	-4	0
OH CLEVELAND	CLE	139	3	22	5380	-248	-98	-4	-2
OH COLUMBUS	CMH	121	8	35	4863	-403	9	-8	0
OH CINCINNATI	CVG	114	16	34	4648	-258	80	-5	2
OH DAYTON	DAY	117	4	27	5031	-256	-8	-5	0
OH TOLEDO	TOL	120	-20	8	5601	-407	-173	-7	-3
OH YOUNGSTOWN	YNG	131	-10	4	5665	-284	84	-5	2
OK OKLAHOMA CITY	OKC	57	1	34	3503	-104	249	-3	8
OK TULSA	TUL	44	-9	16	3524	-91	279	-3	9
OR ASTORIA	AST	110	-20	-13	3826	-457	-472	-11	-11
OR BURNS	4BW	129	-39	10	6297	240	-862	4	-12
OR MEDFORD	MFR	86	-28	15	3948	-262	68	-6	2
OR PENDLETON	PDT	101	-15	4	4761	46	-780	1	-14
OR PORTLAND	PDX	100	-12	6	3618	-434	-584	-11	-12
OR SALEM	SLE	116	-6	10	3972	-246	-382	-6	-7
PA ALLENTOWN	ABE	113	-11	-21	5264	-105	140	-2	3
PA ERIE	ERI	136	-24	-5	5541	-480	121	-8	2
PA HARRISBURG	CXY	113	5	-16	5094	35	227	1	5
PA PHILADELPHIA	PHL	105	2	4	4456	-173	132	-4	3
PA PITTSBURGH	PIT	129	7	27	5293	-270	133	-5	3
PA SCRANTON	AVP	116	-20	-37	5819	13	268	0	5
RI PROVIDENCE	PVD	127	-11	-13	5277	-72	292	-1	4
SC CHARLESTON	CHS	46	22	25	1953	-163	218	-8	13
SC COLUMBIA	CAE	71	41	37	2684	29	274	1	12
SC FLORENCE	FLO	63	32	34	2547	8	525	0	26
SC GREENVILLE	GSP	79	32	36	3245	128	396	4	14
SD ABERDEEN	ABR	116	-53	-3	6717	-1167	-1483	-15	-18
SD HURON	HON	108	-52	0	6235	-1239	-1613	-17	-21
SD RAPID CITY	RAP	135	-29	1	6036	-526	-876	-8	-13
SD SIOUX FALLS	FSD	119	-37	6	6279	-1008	-1384	-14	-18
TN CHATTANOOGA	CHA	91	48	53	3147	-291	193	-8	7
TN KNOXVILLE	TYS	107	51	75	3501	75	393	2	13
TN MEMPHIS	MEM	50	9	29	2925	-203	232	-6	9
TN NASHVILLE	BNA	87	33	50	3475	-133	258	-4	8
TX ABILENE	ABI	69	35	50	2772	207	512	8	23
TX AMARILLO	AMA	116	39	63	4254	261	438	7	11
TX AUSTIN	AUS	37	21	23	1674	-73	338	-4	25
TX BROWNSVILLE	BRO	13	13	10	693	84	214	14	45
TX CORPUS CHRISTI	CRP	27	24	27	1081	111	297	11	38
TX DEL RIO	DRT	39	32	35	1595	87	390	6	32
TX EL PASO	ELP	67	36	62	3028	402	606	15	25
TX FORT WORTH	DFW	42	17	26	2472	199	343	9	16
TX GALVESTON	GLS	30	25	25	1239	-10	277	-1	29
TX HOUSTON	IAH	35	23	24	1556	17	381	1	32
TX LUBBOCK	LBB	94	39	69	3533	136	566	4	19
TX MIDLAND ODESSA	MAF	85	52	72	3007	401	661	15	28
TX BEAUMONT	BPT	29	18	22	1466	-10	322	-1	28
TX SAN ANGELO	SJT	70	47	61	2630	353	647	16	33
TX SAN ANTONIO	SAT	41	29	33	1657	57	358	4	28
TX VICTORIA	VCT	29	24	26	1306	38	314	3	32
TX WACO	ACT	49	21	28	2246	147	401	7	22
TX WICHITA FALLS	SPS	61	22	38	3026	80	328	3	12
UT BLANDING	4BL	128	-13	21	5469	-51	552	-1	11
UT CEDAR CITY	CDC	118	-23	9	5546	214	601	4	12
UT SALT LAKE CITY	SLC	90	-37	-3	5225	-36	286	-1	6
VT BURLINGTON	BTV	131	-48	-39	7006	-179	83	-2	1
VA LYNCHBURG	LYH	100	31	47	4169	85	413	2	11
VA NORFOLK	ORF	86	23	28	3257	-23	297	-1	10
VA RICHMOND	RIC	102	36	45	3895	114	584	3	15
VA ROANOKE	ROA	107	30	52	4136	72	415	2	11
WA COLVILLE	63S	116	-31	3	5539	-791	-924	-12	-14
WA QUILLAYUTE	UIL	122	-29	-13	4342	-524	-531	-11	-11
WA SEATTLE-TACOMA	SEA	110	-14	6	3800	-542	-491	-12	-11
WA SPOKANE	GEG	105	-24	5	5856	-214	-782	-4	-12
WA WALLA WALLA	ALW	71	-31	-10	4413	53	-815	1	-16
WA YAKIMA	YKM	117	-8	11	5316	-86	-883	-2	-14
WV BECKLEY	BKW	163	51	71	4983	-128	368	-3	8
WV CHARLESTON	CRW	135	51	70	4318	-81	601	-2	16
WV HUNTINGTON	HTS	123	42	59	4289	-87	392	-2	10
WV PARKERSBURG	PKB	132	38	59	4627	-3	197	0	4
WI GREEN BAY	GRB	111	-62	-15	6615	-757	-858	-10	-11
WI LACROSSE	LSE	81	-69	-24	6133	-873	-1196	-12	-16
WI MADISON	MSN	109	-47	-3	6280	-716	-894	-10	-12
WI MILWAUKEE	MKE	115	-47	3	5806	-760	-656	-12	-10
WI WAUSAU	AUW	98	-81	-38	6871	-925	-1038	-12	-13
WY CASPER	CPR	144	-35	20	6595	-132	-37	-2	-1
WY CHEYENNE	CYS	171	-11	37	6254	-119	111	-2	2
WY LANDER	LND	133	-44	8	7057	66	-162	1	-2
WY SHERIDAN	SHR	132	-46	22	6238	-697	-559	-10	-8

National Agricultural Summary

April 6 to 12, 1987

HIGHLIGHTS: Warm, dry weather spurred land preparation and seeding in most areas of the Nation. Low soil temperatures hampered seeding in California, the Southeast, and the Delta. Soil moisture was adequate, except in a few Corn Belt States, where soil moisture was short to adequate. Farmers were able to work 4 to 6 days in most areas. Rain hampered fieldwork in Ohio, Michigan, and in the North Atlantic Coast States.

Winter wheat was mostly good. Warmth and moisture promoted growth. Wheat began turning color in Louisiana. Spring wheat seeding was underway in Montana, Minnesota, Washington, and Wyoming. Corn planting moved into the central Great Plains and as far North as Illinois. Planting was underway in Ohio and Missouri. Low temperatures damaged emerged sorghum in Texas. Cotton planting was underway in 6 of the 14 major producing States, ranging from just beginning in New Mexico to 45 percent (%) completion in Arizona. The cold weather slowed growth in Texas. Fruit producers were busy assessing freeze damage in the southern Great Plains, Delta, and the Southeast. Livestock was mostly good.

SMALL GRAINS: Winter wheat was mostly good, except in the Southeast and Delta, where condition was fair to good. Warmth and adequate moisture promoted growth in most areas. In Kansas, wheat experienced light to moderate freeze damage in western and central areas, with the most severe damage in the south central producing area where jointing was well advanced. Fifty percent of the acreage was jointing compared with the 15% 5-year average. Despite freeze damage, the crop was mostly good to fair. Nebraska's wheat was good to fair with virtually no winterkill. Eighty percent of North Dakota's wheat was greening. Winter grains were greening in South Dakota.

Wheat began heading in south-central Oklahoma. Freeze damage could reduce yields significantly in northwestern areas. Dry weather aided weed and insect control. Producers began assessing small grain freeze damage in Texas. Early planted and ungrazed fields in the High Plains were hurt severely. Yield reductions may not be known until harvest begins. Heading reached 10% completion, 28 points behind 1986 and 5 points below the average.

Small grains were heading in California. Jointing was nearing completion in Arizona. Heading was 60% finished, and 5% of the acreage was turning color.

In the Southeast and Delta, wheat development ranged from jointing to turning color in Louisiana. Georgia's wheat was 14% headed but lagged 24 points behind normal. Heading was just beginning in Mississippi. North Carolina's small grains were mostly good to fair.

Spring oats and barley seedings were ahead of normal in most areas. In Montana, spring wheat was 2% seeded, compared with 24% in 1986 and 9% normally. Spring wheat seeding was 10 points ahead of the average in Minnesota but lagged 10 points behind normal in Wyoming. Spring small grain seeding continued in South Dakota.

OTHER CROPS: Corn planting began spreading across the Corn Belt, moving as far North as Illinois and into the central Great Plains. Seeding was behind the average in most areas of the Nation. Seeding was furthest along in Georgia, Alabama, and Texas, with each State 54, 57, and 61% seeded, respectively. Planting was just beginning in Illinois and Ohio. The cold weather damaged corn in the Blackland and central and southern Texas. Some replanting may be necessary in these areas, and replanting was underway in the lower Rio Grande Valley.

Sorghum planting was just underway in Louisiana and Oklahoma. Seeding was 5% finished in Louisiana and 8% finished in Alabama. Low temperatures damaged emerged sorghum in Texas. Seeding reached 49% completion compared with 56% normally.

Cotton planting was underway in 6 of the 14 major producing States. Seeding ranged from just beginning in New Mexico and Arkansas to 45% completion in Arizona. Wind and cool temperatures earlier slowed Arizona's seeding progress to 10 points behind the average. Seeding ran 10 points ahead of normal in Alabama. Producers were still waiting for warm, dry weather to begin seeding in Georgia. In Texas, seeding reached 12% completion, 3 points below average. Cotton seeding increased in the Blackland, Tran Pecos, and central and southern Texas. Early-planted fields nipped by cold weather were recovering but grew slowly.

Rice was 45% planted in Texas, trailing 10 points behind normal. Some fields were flushed to achieve emergence. Louisiana's rice was 33% planted and 17% emerged. Planting was just beginning in Arkansas. Rice fields were prepared for planting in California.

Tobacco transplanting reached 36% completion in Georgia, progressing two times slower than normal. Transplanting lagged 18 points behind the 25% average in South Carolina. In Florida, tobacco was recovering from the previous week's freeze. Tobacco beds were 94% seeded in Kentucky, and approximately 40% had emerged plants. Cold temperatures slowed tobacco plant growth in Tennessee.

FRUIT AND NUTS: Fruit crops suffered moderate to severe damage in Arkansas, Kentucky, and Tennessee. Georgia's fruit was hurt by the cold weather, but it is still too early to fully assess damage. Fruit trees were budding in Idaho. Peach trees reached full bloom in southern New Jersey.

Florida's citrus groves were very good to excellent. Moisture was adequate, but irrigation was needed in some areas. New growth was abundant, and the bloom cycle was finished. Valencia harvest increased. Citrus harvest was virtually finished in Texas. Fruit set was good. Peaches were damaged heavily in the Hill Country. Peaches were mostly destroyed in northern Texas. Arizona's citrus groves were good. In California, thinning, spraying, and irrigating were active in fruit orchards. Apples approached full bloom, and grapes grew rapidly. Desert grapefruit, avocado, and lemon harvests were active. Valencia orange harvest gained momentum, but navel orange harvest slowed. Almond set was good, and walnuts bloomed heavily.

VEGETABLES: Freeze-damaged vegetables were replanted in the Delta and Southeast. Vegetables were slowly recovering in Texas. Replanting will be necessary in most areas. Spring vegetable harvest was active in Florida. Volume leaders were tomatoes, potatoes, cucumbers, cabbage, celery, and peppers. Watermelon and sweet corn harvests were underway. California vegetable harvest consisted mostly of asparagus, broccoli, carrots, cauliflower, lettuce, and celery.

PASTURES AND LIVESTOCK: Livestock was mostly good. In Kansas, calf losses were severe in some counties. Stress and disease increased. Scours and pneumonia were a problem in some areas of Nebraska. The warm weather helped reduce scours and other health problems in North Dakota. Pastures were mostly good.

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall totals mostly 0.33 to 1.00 in.; none most areas south. Temperatures averaged 2 to 4° below normal.

Days suitable for fieldwork 5.0. Soil moisture 83% adequate, 17% surplus. Fieldwork progress mostly behind schedule. Corn 57% planted, 60% 1986, 51% avg. Cotton 13% planted, 8% 1986, 3% avg. Sorghum 8% planted, 4% 1986, 3% avg. Few fields peanuts planted. Wheat 30% headed, 26% 1986, 22% avg.; little to no freeze damage; 48% fair, 50% good, 2% excellent. Early vegetable crops freeze damaged most areas; producers replanting some crops. Pastures fair to good. Pasture feed supply mostly adequate. Livestock good to fair. Primary activities: Planting row crops, vegetables; land preparation; accessing fruit crop damage; spraying orchards; thinning peaches; applying fertilizer, lime to cropland; routine care of livestock, poultry.

ARIZONA: Weak upper level weather disturbance moved into State 6th causing light showers, thunderstorms north. Southeast skies partly cloudy; mostly sunny southwest. Thunderstorms central mountains late 7th. Moisture amounts traces to 0.33 in. High pressure built 8th, mostly sunny except isolated light showers White Mountains. Abundant sunshine, warming trend prevailed 9th, 10th. Afternoon readings reached middle 60s high country, upper 70s at 5,000 ft. 90s southwest deserts, along Colorado River. Cloudiness increased 11th. Few isolated showers reported White Mountains. Average temperatures 2 ° below normal to 8° above.

Cotton 45% planted, 65% 1986, 55% avg. Planting progress behind normal due to earlier cool temperatures, continued winds. Growers pre-irrigation, mulching fields left to be planted. Wheat, barley good to excellent; 99% jointing, 96% 1986, 98% avg.; 60% heading, 90% 1986, 75% avg.; 5% turning color, none 1986. Yuma grain filling normally, green color fading. Irrigation, fertilization as required. Alfalfa fair to good. Harvest 1st cutting near completion Yuma, regrowth progressed satisfactorily. Weeds, insects moderate to heavy Pima, Graham Counties. Field corn good, Maricopa County stands 4 in. high. Lettuce shipped from all central districts; western lettuce complete Parker-Poston, winding down Yuma. Spring melon crop responding to favorable temperatures, crop good. Digging of spring potato crop to begin about 20th central. Citrus groves good.

ARKANSAS: Temperatures near, slightly below normal. Dry week, scattered showers latter part. Temperature extremes 25o; 90o. Rainfall none to 1.22 in.

Cotton less than 1% planted. Rice planting 6% complete. Wheat mostly fair to good. Oats 11% very poor, 27% poor, 2% fair, 60% good. Corn planting 47% complete. Fruit crop damage moderate to severe. Tomatoes 75% planted. Soybean land preparation active.

CALIFORNIA: Warm weather across State. Temperatures averaged 3 to 4° above normal. Daytime highs above 80° central valley, over 90° southern deserts. Significant rainfall limited extreme north coast. Weak low pressure passed through, only light spotty rainfall.

Wheat barley, oats heading. Wheat irrigated. Rice field preparation. Alfalfa herbicides applied. Alfalfa green-chopped, hay cut. Cotton ground preparation. Sugarbeets harvested. Silage mixes green-chopped. Thinning, spraying, irrigating active, fruit orchards. Apples near full bloom. Grape growth rapid. Avocado, desert grapefruit, lemon picking active. Navel orange harvest slowed; valencia orange harvest gaining momentum. Citrus bloom progressed. Almond set good. Walnuts blooming heavily. Artichokes moderate, improved quality, Salinas. Harvest in full production, Santa Cruz-San Mateo Coast. Asparagus harvest continued, Sacramento Valley, Delta, Firebaugh District, Los Angeles-Orange County; excellent quality. Harvest continued winding down, desert. Strawberry picking continued, south coast, good quality. Broccoli moderate, Salinas; light, Santa Maria; good quality. Packing continued Fresno, Oxnard, Patterson-Newman, desert. Carrot digging active, good quality, desert, south coast, Perris-Hemet, Kern-Tulare. Cauliflower fairly light, Salinas; light Santa Maria; good quality. Some harvesting, Fresno. Celery harvest active, Oxnard, Los Angeles-Orange County, good quality. Land preparation continued, Salinas-Watsonville. Sweet corn showed emergence, Delta. Cucumbers planted; Fresno, hot-house cucumbers, central valley being picked, packed. Lettuce packing San Joaquin Valley moderate, but increasing, variable weight, quality. Packing continued, Los Angeles-Orange County, good quality; Huron District, very good quality. Land preparation progressed, Salinas-Watsonville. Harvest near completion, desert. Cantaloup planting continued Westside, watermelon fields planted, Merced-Atwater. Desert crop growing nicely. Spring onions progressed well, Westside; harvest begin shortly. Dehydrator onions Westside, thriving; growers Tulelake-Butte Valley preparing to plant. Freezer peas blooming, Westside. Fall potato packing sheds, Tulelake-Butte Valley, operating full-time, moderate demand conditions. Fields continued to be worked. Spring potato planting continued, Kern. Sweetpotato fields fumigated, Merced-Atwater. Planting tomatoes processed, fresh market continued statewide. Planted fields thrived, ideal growing conditions. Warm weather dried ranges, pastures. Feed maturing southern foothill areas. Supplemental feeding decreased. Lambs neared market weights. Stock water supplies continued below normal levels.

COLORADO: Temperatures averaged 6° below to 3° above normal. Precipitation light, amounts generally less than 0.35 in.

Days suitable for fieldwork 4.0. Seeding, emergence still behind normal. Winter wheat, livestock good. Calving, lambing 75% done.

FLORIDA: Mostly dry entire State. Few localities spotty showers less than 0.10 in. Unseasonably cold with many daily record lows set midweek. Freezing temperatures Panhandle, northern Peninsula; patchy frost colder central, Everglades locations. Near normal temperatures returned by weekend.

Soil moisture adequate except surplus supplies some northern counties. Fieldwork, planting very active. Corn, tobacco recovering from previous weeks freeze. Winter wheat at head stage, good progress. Sugarcane harvest complete. Southern Peninsula pastures good to excellent; elsewhere fair to good, except some central Peninsula poor due to recent frosts; drier, warmer conditions improving western Panhandle. Cattle fair to good, calf marketings increasing. Citrus groves very

good to excellent. Moisture adequate, some irrigation. Abundant new growth; bloom cycle complete. Remaining grapefruit, valencia oranges holding well. Valencia harvest increased. Caretakers very active. Below normal temperatures early week vegetable producing areas. Light frost north, central. Rainfall limited. Harvest active. Volume leaders: Tomatoes, potatoes, cucumbers, cabbage, celery, peppers. Good supplies sweet corn, lettuce, snap beans, squash, strawberries, carrots, radishes available. Light harvest Immokalee watermelons, belle glade sweet corn underway.

GEORGIA: Dry week; 0.10 in. rain over northern counties, dry weather elsewhere. Temperatures 75° mountains, 86° south. Lowest temperatures upper 20s mountains; mid, upper 30s north; near 40° central; low 40s south. Temperatures averaged 3° below normal. Average 4 in. soil temperatures mid 50s north to upper 60s south.

Days suitable for fieldwork 4.6. Soil moisture 79% adequate, 21% surplus. Corn 9% poor, 70% fair, 21% good; 54% planted, 80% 1986, 75% avg. Cotton none planted, 6% 1986, 4% avg. Sorghum grain 1% planted, 6% 1986, 6% avg. Peanuts none planted, 3% 1986, 2% avg. Tobacco 2% poor, 95% fair, 3% good; 36% transplanted, 75% 1986, 72% avg. Watermelons 15% very poor, 32% poor, 50% fair, 3% good; 70% planted, 86% 1986, 77% avg. Wheat 3% poor, 28% fair, 65% good, 4% excellent; 93% jointing, 95% 1986, 92% avg.; 58% boot, 76% 1986, 67% avg.; 14% headed, 43% 1986, 38% avg. Rye 1% poor, 23% fair, 73% good, 3% excellent. Other small grains 15% fair, 82% good, 3% excellent. Apples 5% fair, 87% good, 8% excellent; 20% blooming, 50% 1986, 67% avg. Peaches 10% very poor, 12% poor, 37% fair, 41% good; 96% blooming, 100% 1986, 99% avg. Pasture 1% very poor, 2% poor, 34% fair, 59% good, 4% excellent. Cattle 19% fair, 78% good, 3% excellent. Hogs 15% fair, 83% good, 2% excellent. Main activities: Fertilizing, preparing land, planting, weed control as weather permitted. Cold hurt fruit, melons, vegetable crops, still too early to fully assess damage. Planting progress picked up last week but continued behind normal due to earlier wet soils, cool weather.

HAWAII: Intermittent showers throughout week. Occasionally heavy down pours disrupted farming activities. Gusty winds bruised some exposed crops. No major damage to agriculture from rain or winds. Overall crop fair. Gusty trade winds 10 to 35 mph. Temperatures ranged mid 60s to low 80s. Rainfall ranged none to 6.00 in.

Days suitable for fieldwork 7.0. Banana production steady. Papaya production increased. Chinese cabbage harvesting remained active, some shipments to mainland. Light to moderate production for other vegetables.

IDAHO: Spotty precipitation, temperatures 3 to 7° above normal.

Days suitable for fieldwork 6.0. Fieldwork progressed rapidly. Activities include; planting, fertilizing, seeding small grains. Soil moisture short some areas. Small grains emerging. Potato planting just underway. Fruit trees budding. Hay, roughage good. Livestock good.

ILLINOIS: Temperatures averaged 7° above normal north, 1 to 2° above normal south. Precipitation remained less than 0.50 in. over most of State.

Days suitable for fieldwork 6.2. Soil Moisture 60% short, 39% adequate, 1% surplus. Fieldwork active. Corn 1% planted, 2% 1986, none avg. Winter wheat 14% fair, 74% good, 12% excellent. Oats 75% seeded, 77% 1986, 36% avg. Alfalfa 26% fair, 65% good, 9% excellent. Pasture 2% poor, 41% fair, 51% good, 6% excellent; supplying 32% livestock roughage requirements, 38% 1986, 24% avg.

INDIANA: Temperatures near normal. Lows 20s north, 30s south. Highs low 60s to mid 70s. Precipitation widespread, totals 0.40 to 0.75 in. Bare soil temperatures upper 40s to lower 50s.

Fieldwork averaged 5.8 days. Topsoil moisture 52% short, 43% adequate, 5% surplus. Subsoil moisture 44% short, 55% adequate, 1% surplus. Wheat 6% poor, 35% fair, 55% good, 4% excellent. Wheat 6 in. high, 6 in. 1986, 5 in. avg.; 12% jointed, 10% 1986, 7% avg. Oats 75% seeded, 60% 1986, 43% avg. Clover 86% seeded, 70% 1986, 60% avg. Full bloom: Apples-April 21, peaches-April 13. Pastures 5% very poor, 29% poor, 52% fair, 14% good.

IOWA: Warm, dry week. Temperatures 7 to 8° above normal north, 4° southeast. Temperature extremes 21°; 80°. Precipitation amounts small.

Days suitable for fieldwork 5.1. Topsoil moisture 7% short, 88% adequate, 5% surplus; subsoil moisture 86% adequate, 14% surplus. Winter wheat 7% poor, 24% fair, 60% good, 9% excellent; hay 5% poor, 28% fair, 57% good, 10% excellent. Oats 45% sown, 57% 1986, 26% avg.; oats 2% emerged, 9% 1986, 8% avg. Seedbed preparation 50% completed; fertilizer application 45% completed, 36% 1986, 40% avg. Livestock good to excellent. Ideal weather for calving. Good movement.

KANSAS: Temperatures ranged 47 to 55°, within 2° of normal. Precipitation generally light. Only trace amounts west, less than 0.25 in. east.

Days suitable for fieldwork 3.0. Soil moisture 1% short, 58% adequate, 41% surplus. Wheat light to moderate freeze damage, west, central; more severe south central where jointing well advanced. Wheat 50% jointing, 45% 1986, 15% avg.; 2% very poor, 5% poor, 32% fair, 50% good, 21% excellent. Oat, barley planting neared completion. Corn planting eastern counties, seedbed preparation elsewhere where field conditions permit. Range, pasture good for time of year. Feed grain, forage adequate. Calf losses severe some counties, cows, stockers fared better. Stress related diseases increased. Ranchers rounding up strays, feeding, doctoring.

KENTUCKY: Generally cool, dry. Mercury readings averaged 1 to 5° below normal, coolest readings mid 30s. Warming trend brought high temperatures in 70s. Rainfall 0.25 to 0.50 in., normal rainfall 1.00 in.

Days suitable fieldwork 3.4. Soil moisture 1% very short, 26% short, 65% adequate, 8% surplus. Tobacco beds 94% seeded, approximately 40% beds have emerged plants. Plants fair to good condition, some required watering. Corn 5% planted. Wheat good average height 10 in. Moderate to severe freeze damage to peach crop, light to moderate damage on apples. Pastures fair to good, need warmer temperatures.

LOUISIANA: Temperature 4 to 6° below normal. Temperature extremes 27°; 86°. Rainfall averaged none to 0.15 in.

Days suitable for fieldwork 5.9. Soil moisture 4% short, 94% adequate, 2% surplus. Spring plowing 43% complete, 84% 1986, 66% avg. Corn fair; 45% planted, 87% 1986, 72% avg. Corn 16% emerged, 77% 1986, 60% avg. Rice 33% planted, 49% 1986, 38% avg.; 17% emerged, 36% 1986, 26% avg.; 79% fair, 21% good. Sorghum 5% planted, 29% 1986, 18% avg. Sweetpotatoes 2% planted, 2% 1986, 1% avg. Winter wheat fair; 46% headed, 75% 1986, 47% avg.; 2% turning color, 4% 1986, 2% avg. Sugarcane, vegetables fair; pastures, livestock fair to good. Main activities: Spring plowing; planting corn, rice, sorghum, sweetpotatoes; replanting vegetables, home gardens; applying fertilizers.

MARYLAND & DELAWARE: Maryland: Temperatures averaged 50°, 54° normal; lowest temperature below freezing. Precipitation averaged 1.13 in., ranging from 0.33 in. Baltimore to 2.94 in. Hagerstown.

Days suitable for fieldwork 5.0. Topsoil moisture adequate. Subsoil moisture adequate. Acreage prepared for planting 40%. Wheat, oats, barley, rye good condition. Peaches bloom 50%, 50% avg. Apples bloom 10%, 10% avg.

Delaware: Temperatures averaged 48°, normal 51°; lowest temperature below freezing.

Days suitable for fieldwork 5.5. Topsoil moisture adequate. Subsoil moisture adequate. Acreage prepared for planting 15%. Wheat, barley, rye good condition. Peaches bloom 50%, 55% avg.

MICHIGAN: Temperatures ranged 3 to 10° above normal. Temperature extremes 21°; 78°. Precipitation ranged from none to 0.95 in. across State. Snow virtually gone.

Winter wheat fair, greening. Activities: Spreading manure, plowing fields, sowing oats, alfalfa, attending farm auctions, spreading fertilizer, repairing machinery, completing tax forms, marketing grain, livestock, fruits, vegetables. No corn planted. Livestock excellent, pasturing. Feed supplies adequate.

MINNESOTA: Temperatures averaged 8 to 14° above normal. Temperature extremes 23°; 81°. Precipitation averaged 0.22 to 0.53 in. below normal. Precipitation totals averaged 0.28 in. southwest, zero to 0.07 in. elsewhere. Greatest weekly total 0.60 in.

Full scale fieldwork expected 15th, 10 days earlier than 1986. Topsoil moisture 6% very short; 30% short, 64% adequate. Spring wheat 11% planted, none 1986, 1% avg. Oats 25% planted, 2% 1986, 2% avg. Barley 4% planted, none 1986, none avg. Green peas 6% planted, 1% 1986, 1% avg. Corn 7% land prepared, none 1986, none avg.; soybeans 4% land prepared, none 1986, none avg. Fall seeded small grains 27% dormant; 6% poor, 48% fair, 45% good, 1% excellent.

MISSISSIPPI: Temperatures slightly below normal; extremes 31°; 83°. High pressure over Texas kept State fairly dry. Rainfall averaged 0.80 in. north central, 0.10 in. southern third.

Days suitable for fieldwork 5.0, 5.3 1986, 3.7 avg. Soil moisture 2% short, 55% adequate, 41% surplus, 2% excessive. Corn 32% planted, 63% 1986, 45% avg.; 15% emerged, 39% 1986, 31% avg.; 28% planted; 48% fair, 24% good. Wheat 90% jointing, 91% 1986, 85% avg.; 7% heading, 40% 1986, 25% avg.; 4% very poor, 5% poor, 27% fair, 62% good, 2% excellent. Watermelons 34% planted, 37% 1986, 35% avg.

MISSOURI: Temperatures averaged near normal, ranging from 2° above normal northeast to 5° below normal southeast. Rainfall widespread but light, averaging 0.25 in. across State.

Days suitable for fieldwork 5.2. Topsoil moisture 10% short, 87% adequate, 3% surplus. Oats 82% sown, 82% 1986, 50% avg. Corn 7% planted, 13% 1986, 5% avg. Tillage for spring-planted crops 50%, 54% 1986, 43% avg. Wheat 2% very poor, 9% poor, 49% fair, 37% good, 3% excellent. Pasture fair to good.

MONTANA: Temperatures 4° above normal west, 9° above normal east. Precipitation 0.25 to 0.50 in. west, south central, northeast, southeast. Dry elsewhere. Windy latter part of week.

Days suitable for fieldwork 3.1. Topsoil moisture 7% short, 82 % adequate, 11% surplus. Subsoil moisture 11% short, 81% adequate, 8% surplus. Winter wheat 24% fair, 67% good, 9% excellent. Crop 2% dormant, 59% greening, 39% green and growing. Field tillage 22% not started, 70% just started, 8% well underway. Spring wheat 2% planted, 24% 1986, 9% avg. Barley 6% planted, 34% 1986, 12% avg. Sugarbeets 2% planted, 11% 1986, 5% avg. Oats 3% planted, 23% 1986, 6% avg. Calving 73% complete, 73% 1986, 74% avg. Lambing 64% complete, 60% 1986, 65% avg.

NEBRASKA: Precipitation averages ranged from near 0.10 in. north and northeast to 0.25 in. south. Temperatures averaged 2° above normal east to near normal west. Temperature extremes 21°; 77°.

Days suitable for fieldwork 3.4 Topsoil, subsoil moisture adequate to surplus. Conditions allowed some fieldwork, mainly fertilizer application, discing, planting small grains. Oats 40% planted, 58% 1986, 32% avg. Wheat 24% fair, 76% good; little or no winterkill. Sugarbeet, alfalfa seeding active. Pasture, range feed mostly adequate. Calving in full swing, scours and pneumonia problem in some areas hit by late March snow storm. Muddy feedlots, farm lots caused extra livestock care and labor.

NEVADA: High pressure system dominated resulting in warm temperatures, dry conditions all areas. Few weak storm systems dropped isolated showers northeast, southern portions. Average temperatures well above normal, warmest northwest. Temperature extremes 16°, 92°.

Excellent progress fieldwork all areas. Alfalfa hay harvesting started extreme south. Cattle, sheep beginning to move to summer ranges.

NEW ENGLAND: Precipitation averaged 0.25 to 0.50 in. northern New Hampshire; 0.50 to 1.00 in. northern Maine, western Vermont, northwest and coastal Connecticut; 1.00 to 1.50 in. interior and coastal Maine, western Massachusetts, central Connecticut, southeast Vermont; 1.50 to 2.00 in. southern New Hampshire, Rhode Island; 2.00 to 2.50 in. central Massachusetts; 3.00 to 3.50 in. eastern Massachusetts. Temperatures averaged 5 to 9° above normal north, 2 to 5° above normal south.

Major farm activities: Tending livestock, repairing machinery, moving crops from storage.

NEW JERSEY: Temperatures averaged above normal north, near normal central, south. Extremes 28°; 79°. Rainfall averaged 0.65 in. north, 0.24 in. central, 0.15 in. south. Heaviest 24-hour total 0.67 in. on 12th, 13th. Estimated soil moisture percent field capacity averaged 98% north, 95% central, 93% south. Four inch soil temperatures averaged 42 ° north, 47° central, 49° south.

Fieldwork progressed about on schedule. Soil moisture continued excessive many areas. Harvest of early greens began. Peaches in full bloom southern areas. Field crops, pastures making normal growth.

NEW MEXICO: Temperatures averaged near normal to 6° below normal statewide. Precipitation none south, over 0.50 in. north.

Days suitable for fieldwork 5.8. Soil moisture 18% short, 73% adequate, 9% surplus. No hail damage. Wind damage 40% none, 60% light. Freeze damage 25% none, 37% light, 38% moderate. Alfalfa 44% fair, 56% good. Very limited planting cotton, Mesilla Valley. Wheat mostly fair to good; Russian wheat aphid build up, spraying underway. Chile 50% fair, 50% good; planting in full swing. Cattle good to fair. Sheep good to fair. Ranges 9% poor, 64% fair, 27% good; grass plentiful most localities.

NEW YORK: Temperatures averaged near to slightly above normal. Precipitation north, west areas near or below normal. Southeast areas above normal amounts. Flooding many areas.

Spring fieldwork underway.

NORTH CAROLINA: Temperature 4 to 8° below normal across State. Temperature extremes 18°; 79°. Precipitation ranged from 0.10 to 0.20 in. across State.

Days suitable for fieldwork 4.6. Soil moisture 85% adequate, 15% surplus. Small grains fair to mostly good. Irish potatoes 90% planted, 99% 1986, 92% avg.; mostly good to fair. Pasture fair to good. Tobacco plantbeds 22% fair, 78% good. Corn 8% planted, 36% 1986, 32% avg. Peaches 4% very poor, 17% poor, 26% fair, 48% good, 5% excellent. Tobacco plant supplies 5% short, 95% adequate. Major farm activities: Land preparation; planting corn; tobacco plantbed care; tending livestock; topdressing small grains, pastures; transplanting Christmas trees; pasture renovation, maintenance; planting spring Irish potatoes, cabbage; machinery repair, maintenance; general farm maintenance.

NORTH DAKOTA: Warm, dry. Temperatures 10 to 12° above normal. Extremes 19°; 79°. Light showers statewide, up to 0.20 in. west central.

Fieldwork, seeding started drier areas. Average start April 18th, behind last 3 years. Topsoil moisture still above normal, 72% adequate, 28% surplus. Warm, dry weather dried previously very wet fields. Winter wheat, rye good to excellent; greening 80%, 76%. Some small grain storage problems. Calving 73% complete, lambing 87%, shearing 84%. Pastures 86% open. Good weather reduced scours, other health problems.

OHIO: Average low temperatures mid 30s. Average high temperatures mid 50s. Precipitation less than 0.50 in.

Days suitable for fieldwork 1.0. Soil moisture 2% short, 40% adequate, 58% surplus. Field activities included planting early vegetables, hauling manure, mending fences. Field corn planting just underway. Oats 50% seeded, 50% 1987, 48% 1986, 22% avg. Tobacco plantbeds 60% sown, 55% 1986. Winter wheat greening; snow melt provided much needed moisture. No apparent damage to apple crop; some damage to peach crop from recent low temperatures.

OKLAHOMA: Temperatures averaged 1° below normal Panhandle to 4° above normal east central. Precipitation averaged none southwest third to 0.33 in. northeast.

Days suitable for fieldwork 5.8. Topsoil moisture 1% short, 74% adequate, 25% surplus. Subsoil moisture 100% adequate. Wheat 20% poor, 35% fair, 45% good; 75% jointing, 85% 1986, 65% avg. Recent freeze damage could reduce production significantly northwest. Wheat began heading south central. Dry weather aided weed, insect control. Sorghum 35% seedbed prepared, 65% 1986, 40% avg. Sorghum planting began south central. Cotton 40% seedbed prepared, 65% 1986, 30% avg. Pastures good to fair. Cattle good; marketings, prices stable.

OREGON: Temperatures ranged from normal to 5° above normal across State; except Klamath Falls 1° below normal, northeast 3° below normal. Precipitation totaled 1.00 to 1.50 in. coast, nearly 2.00 in. northern coastal range. Amounts ranged from trace to less than 0.10 in. southwest, east.

Soil moisture 27% short, 73% adequate. Barley 86% seeded, 74% 1986, 82% 1985. Fieldwork underway throughout State, spring grain seeding continued most areas. Some frost damage to fall grain crops northeast. Grasses seeded for CRP east. Grass seed fields good west. Hay fertilized Willamette Valley. Alfalfa growing rapidly early areas of southwest, Hermiston-Boardman. Some irrigation started central areas. Sugarbeet planting 98% completed, Malheur County. Cherries past full bloom at The Dalles, Willamette Valley; pollination weather variable. Peaches past bloom, some frost damage northwest. Pears in bloom Hood River Valley, Medford area; no frost damage. Red delicious apples full bloom Milton-Freewater, other areas being sprayed. Caneberry fertilization, leafroller treatments continued, crops show no abnormal problems Willamette Valley. Some frost control on strawberries west. Onions 98% seeded, 50% emerged Malheur County; seeding continued Willamette Valley, Jackson County, Milton-Freewater. First planted potatoes neared emergence Hermiston-Boardman, processing varieties planted also. Norgolds, early russets planted Malheur County. Field preparation continued Klamath Basin. Early green peas emerged west, Umatilla County; seeding continued. Broccoli planted Willamette Valley. Asparagus harvest began, good quality Hermiston-Boardman. Livestock, range, pasture good to excellent west; mostly good east. Grass growth ahead of normal east, some areas drying out fast. Spring calving, lambing done.

PENNSYLVANIA: Week warm, dry. Average temperature 47°, 2° above normal. Temperature extremes 27°; 75°. Average precipitation 0.67 in., 0.15 in. below normal.

Activities: Hauling manure; machinery maintenance; caring for livestock; other activities.

PUERTO RICO: Island average rainfall 0.99 in., 0.07 in above normal. Highest weekly total 4.76 in. Highest 24-hour total 4.30 in. Temperature averaged about 80° on coasts, 72 to 75° interior divisions. Mean station temperature ranged from 66 to 81°. Extremes 54°; 93°. San Juan mean temperature 81°, 2° above normal. Total rainfall 2.14 in., 1.42 in. above normal.

SOUTH CAROLINA: Warm temperatures; little, no rainfall. Precipitation 0.25 in. statewide.

Days suitable for fieldwork 5.1. Soil moisture 3% short, 89% adequate, 8% surplus. Warm conditions favorable for fieldwork. Corn 33% planted, 73% 1986, 60% avg.; fair to good. Tobacco 7% planted, 22% 1986, 25% avg.; fair to good. Watermelons 64% planted, 61% 1986, 61% avg.; fair to good. Tomatoes 91% planted, 93% 1986, 92% avg.; fair to good. Small grains good.

SOUTH DAKOTA: Average temperatures 5°; 10° above normal northeast, 2 to 6° above normal elsewhere. Extremes 22°; 78°. Black Hills low 18°. Precipitation light, scattered.

Early spring seeding continued. Grass, winter grains greening. Winterkill amount undetermined. Calving, lambing continued. Livestock good. Feed, stock water supplies good.

TENNESSEE: Low temperatures much below normal, lower 30s east. High temperatures above normal by weekend reached 79° on 10th. Precipitation very light until 10th. Scattered showers weekend ranged from 0.10 to 0.75 in. Year to date rainfall deficient west, middle. Nashville 8.00 in. below normal.

Days suitable for fieldwork 4.1. Soil moisture 3% very short, 27% short, 64% adequate, 6% surplus. Cotton 1% planted, 1% 1986, 1% avg. Corn 10% planted, 30% 1986, 12% avg. Tobacco 90% beds seeded, 93% 1986, 92% avg.; 45% plants up, 60% 1986. Cold temperatures slowed growth. Wheat 40% jointed, 50% 1986.; 2% poor, 51% fair, 43% good, 4% excellent. Fruit trees 70% budding, 85% 1986; 60% blooming, 65% 1986. Peach crop freeze damage 75% severe, 20% moderate, 5% light. Red delicious apple tree bloom freeze damage. Cattle mostly good to fair. Pastures 2% very poor, 11% poor, 53% fair, 31% good, 3% excellent.

TEXAS: Early week, over running pattern brought rain much State. Drier air from north, rain

limited south, Lower Rio Grande Valley. Afternoon temperatures below normal early week south, Lower Valley. Gradual warming trend southward, strengthened as southwest winds developed ahead approaching cold front. Front produced few weather changes. Temperatures averaged below normal, except slightly above normal northeastern, central sections. Rainfall light to none, except Lower Valley, rainfall slightly above normal.

Crops: County agents, producers assessing damage small grains. High Plains worst damage older, ungrazed fields. Some less damaged fields jointing. Aphids increased some fields. Wheat heading Cross-Timbers. Fields Cross-Timbers, Blackland, central, south surveyed for damage. Total damage to yields may not be known until harvest. Oats also setback. Other small grain pastures east, forage reduction. Wheat 10% headed, 38% 1986, 15% avg. Corn, grain sorghum setbacks from cold. Warmer weather last week helped older fields recover. Some younger fields lost, may be replanted some areas central, south, Blacklands. Some damage Lower Rio Grande Valley, replanting underway. Fields minor leaf burn recovering. High Plains, land preparations continued. Planting begin soon. Planting almost complete central, south. Coastal Bend, Rio Grande Valley. Corn 61% planted, 72% 1986, 58% avg. Sorghum 49% planted, 59% 1986, 56% avg. Cotton planting increased last week Blacklands, central, south, Trans-Pecos. Early-planted fields nipped by cold weather; recovering, but growth slow. Land preparations continued northern areas. Cotton 12% planted, 11% 1986, 9% avg. Rice planting continued Upper Coast. Some flushing planted fields. Warmer weather beneficial. Rice 45%, 79% 1986, 55% avg. Emerged 3%, 35% 1986, 17% avg. Sugarbeet planting finally underway High Plains. Other field crops: Peanuts none planted, 1% 1986, 2% avg. Sugarbeets 6% planted, 23% 1986, 45% avg.

Commercial Vegetables: Rio Grande Valley harvest onions, cabbage, carrots continued where possible. Tomatoes, melons, cucumbers light to medium damage. Melons new growth after cold temperatures. Harvest citrus virtually over. Spraying insects underway. Fruit set next season good, San Antonio-Winter Garden peppers, cabbage, cucumbers emerging. Harvest older cabbage, carrots continued. Some watermelons replanted. Recovery slow. Trans-Pecos onions escaped serious damage. Many early-planted vegetables affected. East melon losses reported. Tomatoes damaged. Some replanting necessary. High Plains, many transplanted onion fields destroyed. Replanting necessary. Planted onions, potatoes continued with open weather. Peaches received heavy damage from late freeze, most Hill Country crop lost. East damage heavy, not total loss. Crop northern areas destroyed. Pecan trees damage to buds. Some areas reporting heavy losses to production. Many trees just breaking, these not hurt as bad as those already budded out.

Range and Pasture: Range, pasture growth increased with warmer weather. Windy conditions decreased soil moisture. Rain needed. Small grain pastures burned by cold weather 2 weeks ago, slow to respond. Livestock recovering, some losses Plains. Some bloat occurred, lambing continued. Producers Hill Country marking lambs, kids. Prices all livestock steady.

UTAH: Precipitation light to moderate. Temperatures 1 to 7° above normal.

Livestock feed adequate. Livestock generally good to excellent. Calving, lambing well underway. Major farm activities: Calving, lambing, shearing, seeding spring crops, equipment repair, fertilizing, tillage, ditch maintenance.

VIRGINIA: Unseasonably cold, wet early, near seasonable late. Up to 1 ft. snow southwest, mountains. Precipitation averaged 0.75 in. Temperatures averaged 7 to 8° below normal.

Days suitable for fieldwork 3.3. Soil moisture 70% adequate, 30% surplus. Heavy snow curtailed activities mountains, southwest. Cool temperatures slowed crop progress. Corn 8% planted, 12% 1986, 14% avg. Apples good to excellent. Peaches blooming Shenandoah Valley; good to excellent. Tobacco beds good to excellent. Small grains, pastures, hay good to excellent. Land preparation, overseeding, fertilizing, insect control, taxes. Livestock good to excellent. Marketing cattle. Some sheep shearing. Feed supplies tight some areas.

WASHINGTON: Warming trend prevailed, sunny skies. Temperature extremes 28°; 71°. Precipitation below normal.

Soil moisture 20% short, 70% adequate, 10% surplus. Spring wheat 70% planted, 35% emerged. Potato planting underway. Cherries, pears full bloom. Range, pasture 70% adequate, 30% short. Hay 90% adequate, 10% short. Calving, lambing nearly complete.

WEST VIRGINIA: Average temperature 46°, 4° below normal. Extremes 18° Greenbank; 77° Creston. Precipitation averaged 0.37 in., 0.40 in. below normal.

Soil moisture 11% short, 50% adequate, 39% surplus. Feed supplies mostly adequate.

WISCONSIN: Temperatures averaged 50°, 8° above normal, low 18°; high 82°. Precipitation trace to 0.60 in. Dry, rain needed.

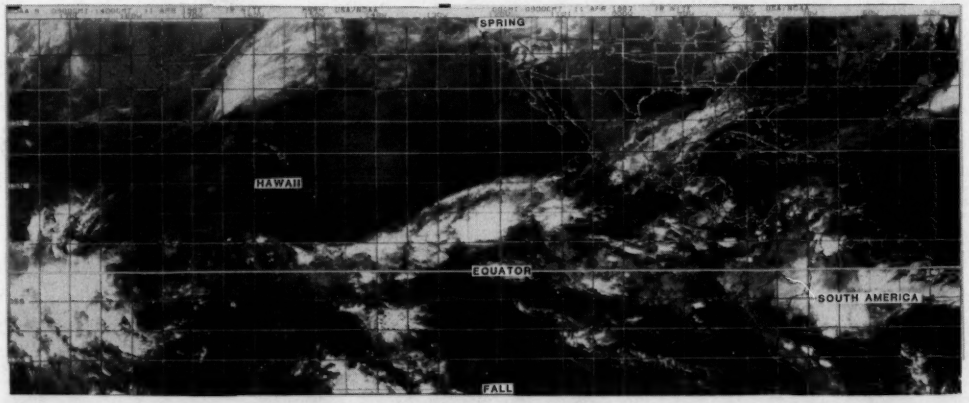
Days suitable for fieldwork 5.8. Soil moisture 29% short, 70% adequate, 1% surplus. Spring plowing 11% complete, 11% 1986, 4% avg. Oats planted 8%, 9% 1986, 4% avg. Alfalfa, winter wheat good, little winterkill. Limited amount peas, sweet corn planted. Maple syrup season over, production below normal to about average.

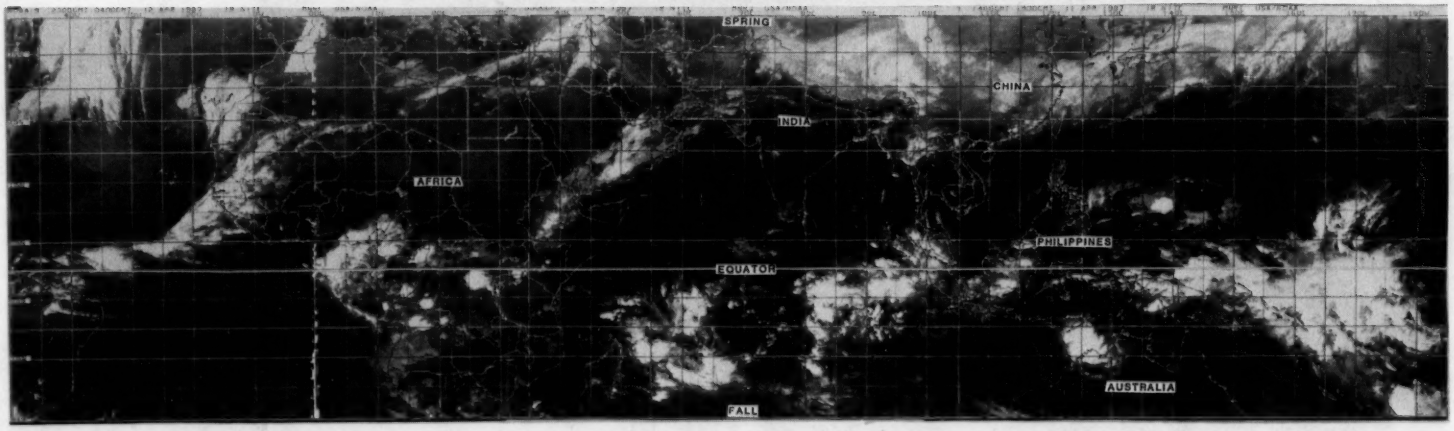
WYOMING: Temperatures above normal. Precipitation below normal except extreme southwest corner.

Days suitable for fieldwork 5.0. Topsoil moisture 8% short, 83% adequate, 9% surplus. Subsoil moisture 8% short, 86% adequate, 6% surplus. Spring wheat 10% planted, 30% 1986, 20% avg. Barley 40% planted, 45% 1986, 40% avg. Oats 10% planted, 25% 1986, 15% avg. Sugarbeets 10% planted, 25% 1986, 20% avg. Winter wheat mostly good to excellent. Light to moderate wind, freeze damage. Livestock good to excellent. Spring calves born 55%, 65% 1986, 65% avg. Death loss light to normal. Farm flock: Ewes lambed 70%, 75% 1986, 75% avg.; shorn 60%, 70% 1986, 65% avg. Range flock: Ewes lambed 30%, 35% 1986, 35% avg.; shorn 35%, 35% 1986, 40% avg. Death losses light to normal. Ranges, pastures 5% poor, 15% fair, 80% good.

Global Weather Satellite Image

APRIL 11, 1987





International Weather and Crop Summary

April 5-11, 1987

HIGHLIGHTS:

UNITED STATES ... Warm, dry weather spurs land preparation and seeding in most areas of the Nation. Low soil temperatures hamper seeding in California, the Southeast, and the Delta. Soil moisture is adequate, except in a few Corn Belt States, where moisture is short to adequate.

WESTERN U.S.S.R. ... Warming continues to melt snow. Winter grains are greening in the western and southern Ukraine.

CANADA ... Light showers and mild weather cover the Prairie Provinces.

EUROPE ... Warm, wet weather in Eastern Europe enhances vegetative wheat growth. Wet weather in the northwest causes some delays in spring field-work.

SOUTH ASIA ... Rain lingers in the winter grain areas of northern Pakistan and northern India. Favorable harvest weather continues in central India's winter wheat areas.

SOUTHEAST ASIA ... Showers improve pre-planting soil conditions in eastern Thailand. Light rain persists throughout the Philippines.

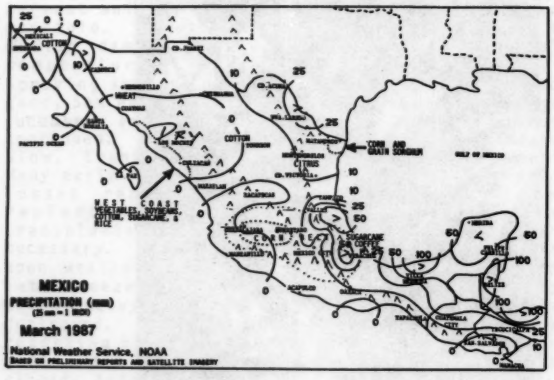
EASTERN ASIA ... Showers ease persistent dryness over wheat areas in Shandong and Hebei.

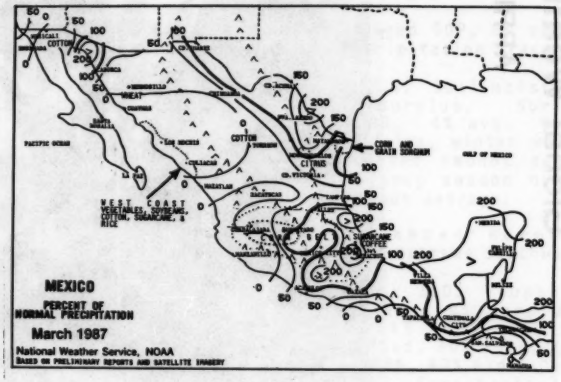
SOUTH AMERICA ... Showers briefly interrupt harvesting again in Argentina and south-central Brazil, but several days of dryness allow some progress.

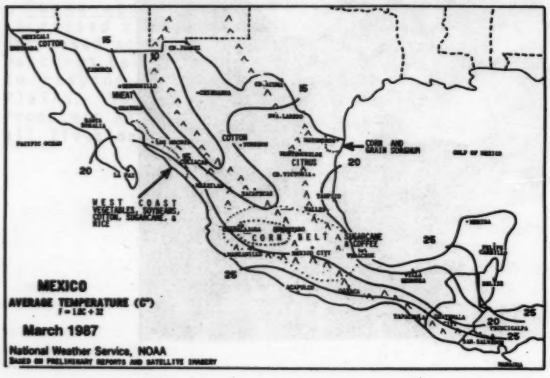
AUSTRALIA ... Dry weather covers most summer crop areas. Scattered showers along Queensland's coast benefit vegetative sugarcane.

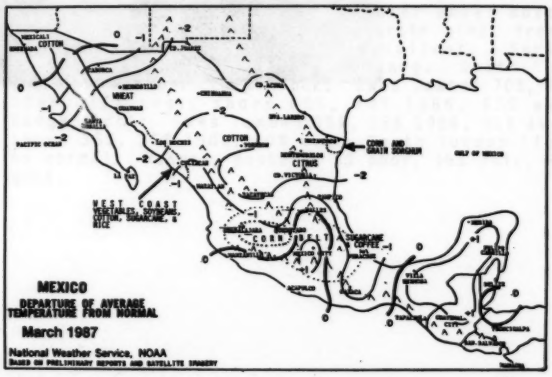
SOUTH AFRICA ... Showers benefit grain-filling corn in the eastern half of the Maize Triangle.

NORTHWESTERN AFRICA ... Minimal rain covers winter grains over much of the region.

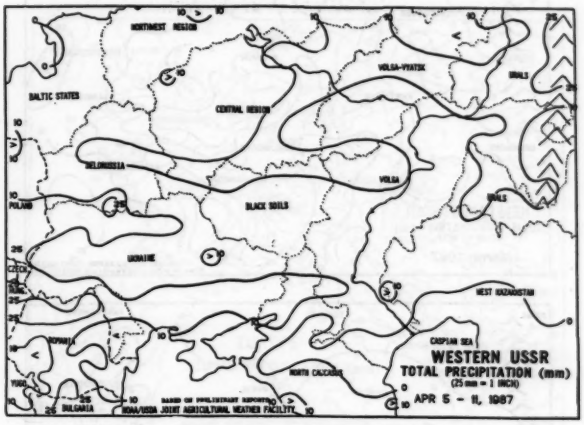


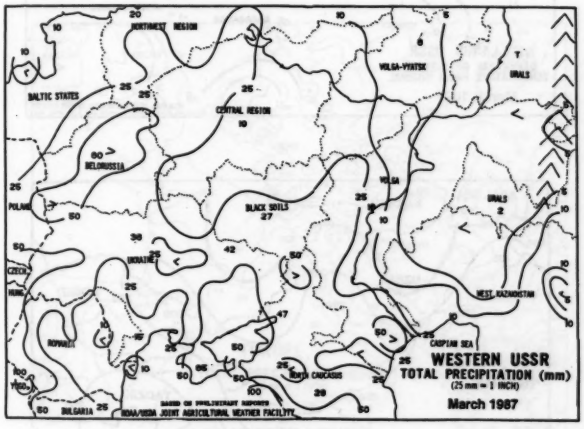


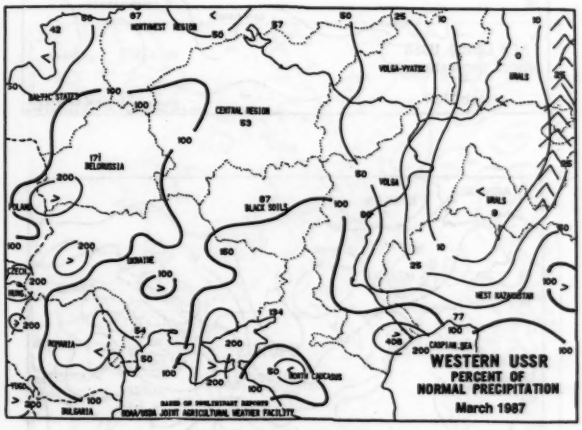


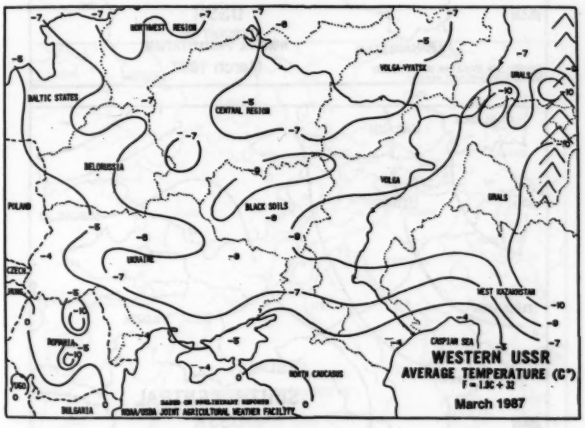


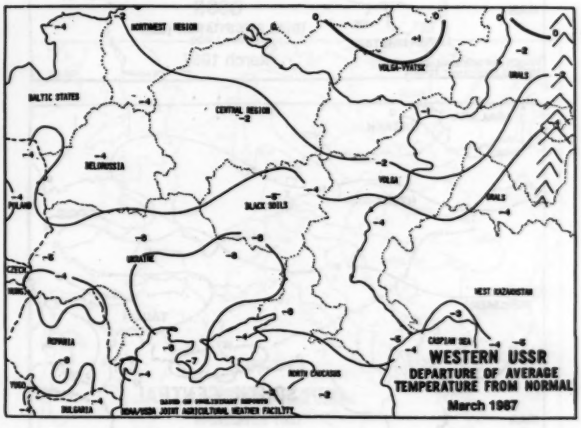
WESTERN U.S.S.R. ... Light rain accompanied gradual warming that continued over winter grain areas. The southern boundary of snow cover extended eastward through the central Ukraine, central North Caucasus, and the lower Volga about 1 month later than usual. Also, winter grains in the southeast remained dormant about 2 to 3 weeks later than usual. Winter grains adjacent to the Black Sea coast were in the vegetative stage, while crops were greening in the western and southern Ukraine. Above-normal March precipitation, mainly snow, covered winter grains in Belorussia, the western and eastern Ukraine, southern Black Soils, North Caucasus, and lower Volga. Below-normal precipitation covered remaining grain areas. Monthly average temperatures were 4 to 6 degrees C below normal in the north. Cold weather and persistent heavy snow cover caused early spring fieldwork delays in many areas.

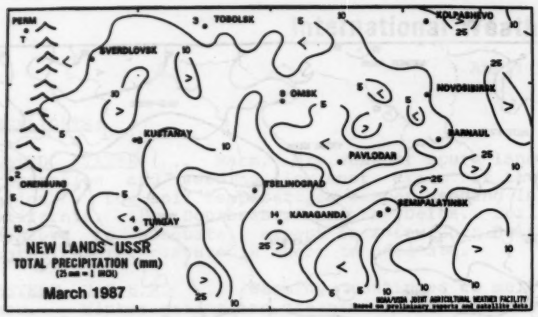


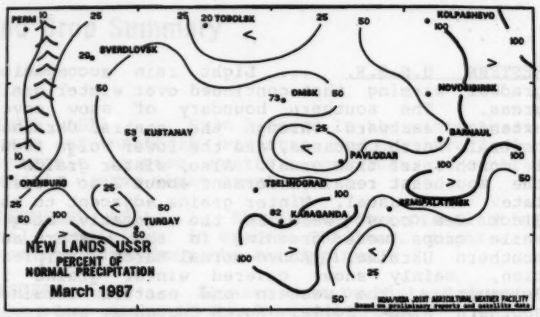









PERM
SVERDLOVSK
TOBOLSK
KOLPASHEVO
OMSK
NOVOSIBIRSK
KUSTANAY
BARNAUL
PAVLODAR
ORENBURG
TSELINOGRAD
KARAGANDA
SEMIPALATINSK
TURGAY
NEW LANDS USSR
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
March 1987


PERM
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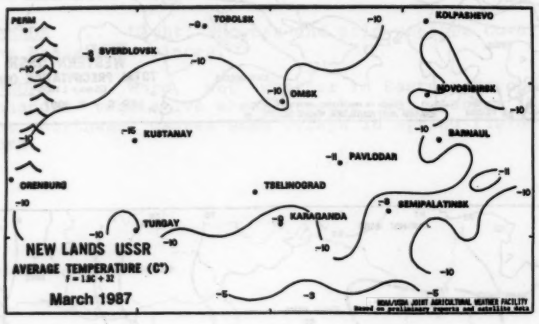
KARAGANDA
SEMIPALATINSK
TURGAY
NEW LANDS USSR
PERCENT OF
NORMAL PRECIPITATION
March 1987


PERM
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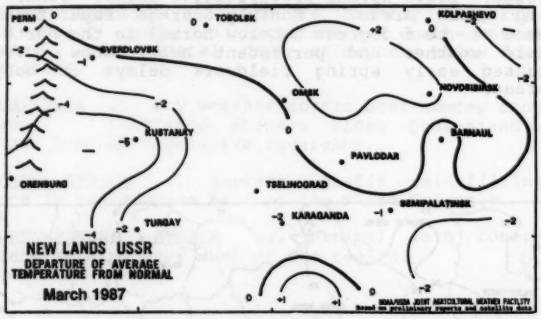
KARAGANDA
SEMIPALATINSK
TURGAY
NEW LANDS USSR
AVERAGE TEMPERATURE (C°)
F = 1.8C + 32
March 1987


PERM
SVERDLOVSK
TOBOLSK
KOLPASHEVO
OMSK
NOVOSIBIRSK
KUSTANAY
BARNAUL
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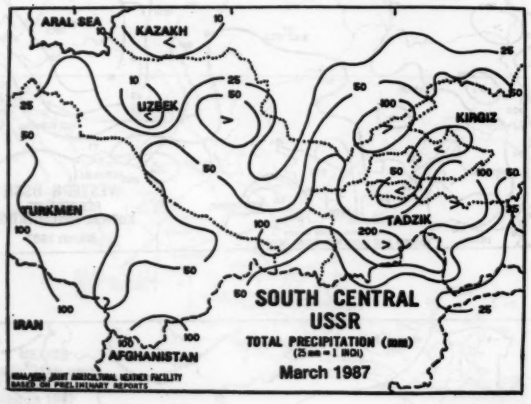
ORENBURG
TSELINOGRAD
KARAGANDA
SEMIPALATINSK
TURGAY
NEW LANDS USSR
DEPARTURE OF AVERAGE
TEMPERATURE FROM NORMAL
March 1987


ARAL SEA
KAZAKH
UZBEK
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TURKMEN
TADZIK
IRAN
AFGHANISTAN
SOUTH CENTRAL
USSR
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
March 1987

ARAL SEA
KAZAKH
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IRAN
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SOUTH CENTRAL
USSR
PERCENT OF
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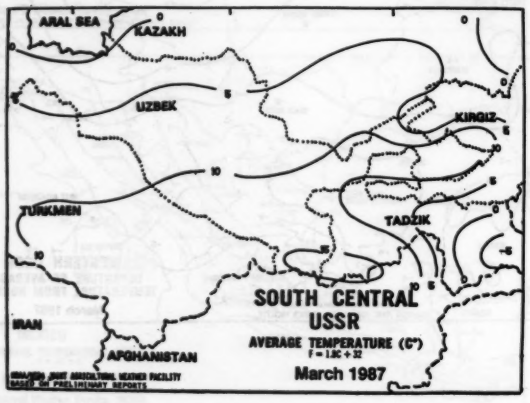
March 1987


ARAL SEA
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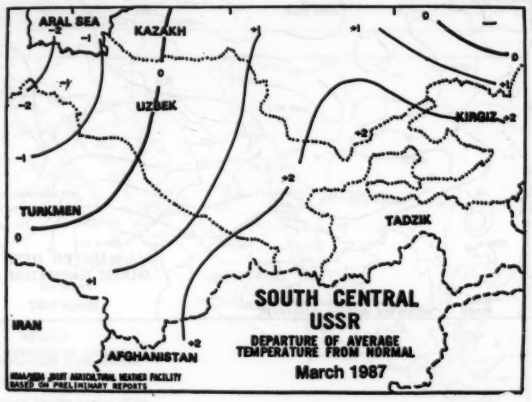
AVERAGE TEMPERATURE (C°)
F = 1.8C + 32
March 1987


ARAL SEA
KAZAKH
UZBEK
KIRGIZ
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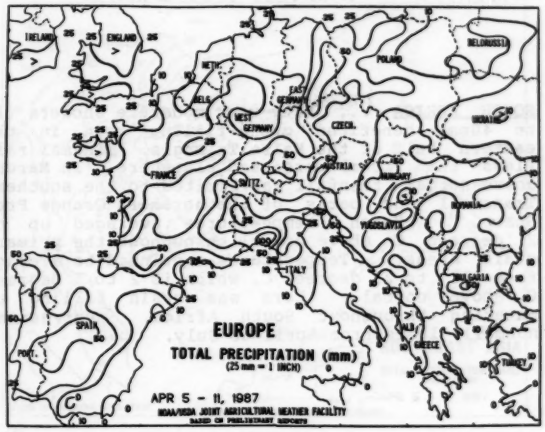
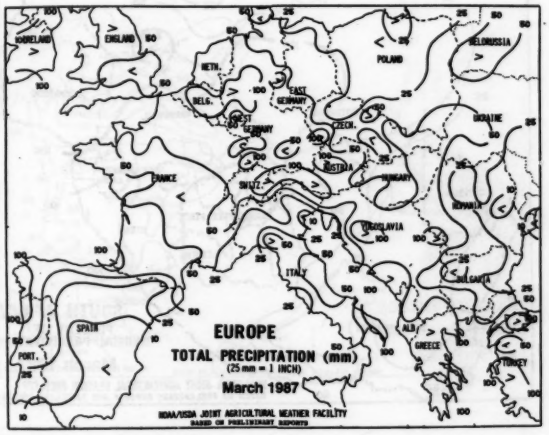
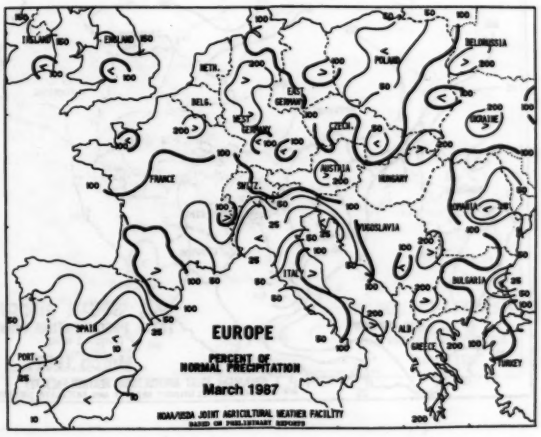
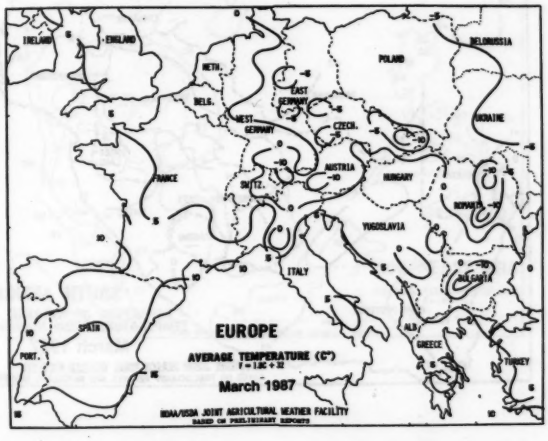
AFGHANISTAN
SOUTH CENTRAL
USSR
DEPARTURE OF AVERAGE
TEMPERATURE FROM NORMAL
March 1987

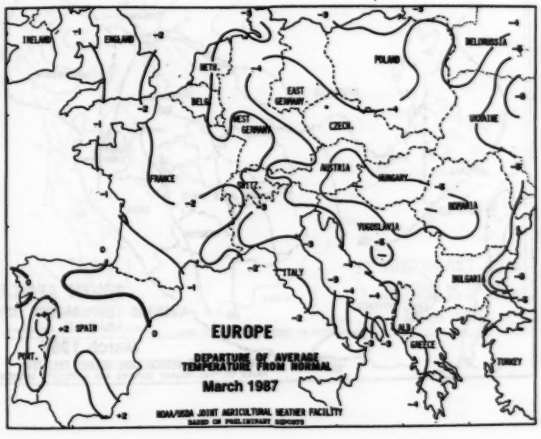
EUROPE ... Above-normal temperatures and wet weather (12 to 50mm) enhanced wheat growth throughout most of Eastern Europe. The rain in Hungary, eastern Yugoslavia, and western Romania followed above-normal March precipitation, providing favorable moisture for winter crop growth and summer crop planting. Winter grains in these areas broke dormancy at usual dates (around late March). Widespread showers in England, northern France, West Germany, and East Germany continued March's wet weather pattern, which likely caused some delays in spring fieldwork. Drier weather is needed in these areas to prevent further delays in summer crop planting. Warm and drier weather in southern Italy and Greece reversed March's unseasonable cold, wet pattern. In Spain, below-normal March precipitation stressed winter grains in the heading stage in the south and vegetative wheat in the north. Light-to-moderate showers improved moisture conditions this past week.



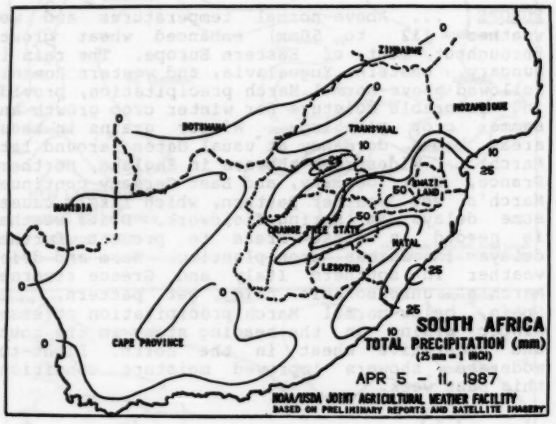


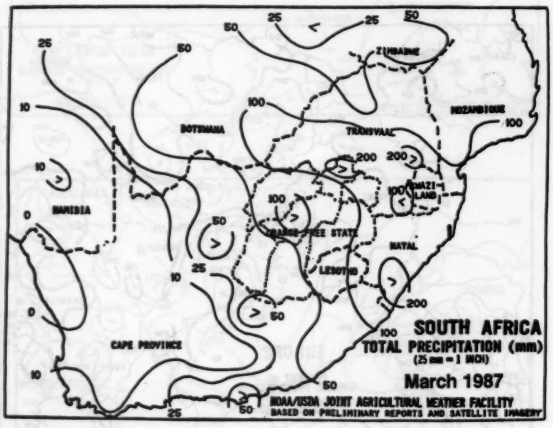


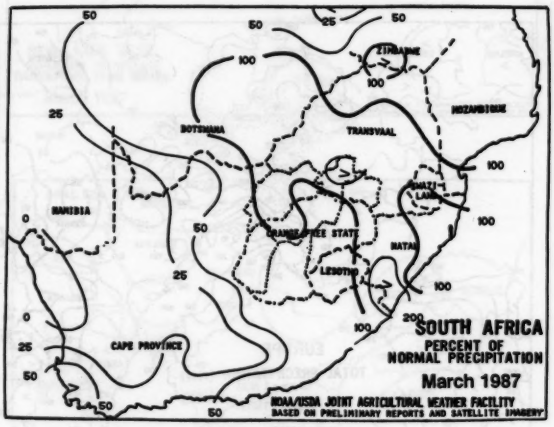


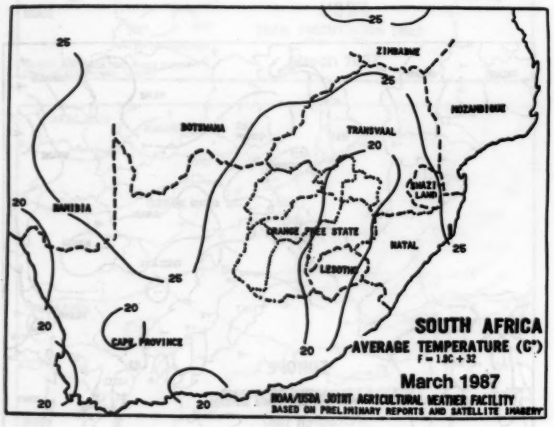


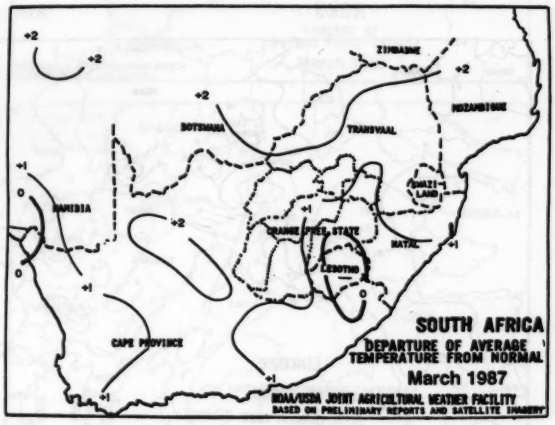
SOUTH AFRICA ... Late-week moderate showers (10 to 40mm) benefited grain-filling corn in the eastern half of the Maize Triangle. Minimal rain (less than 10mm) persisted elsewhere. In March, above-normal rainfall was limited to the southern Transvaal and parts of the northern Orange Free State. March temperatures averaged up to 2 degrees C above normal throughout the primary grain areas. Temperatures continued to average from 21 to 25 degrees C, which is 2 to 5 degrees C above normal. Corn was grain filling to maturing throughout South Africa. Harvesting normally lasts from April to July.



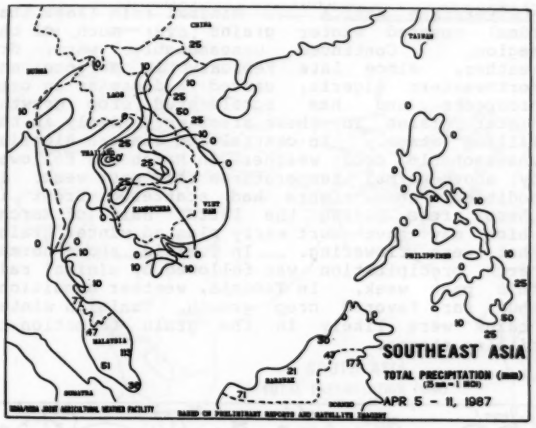


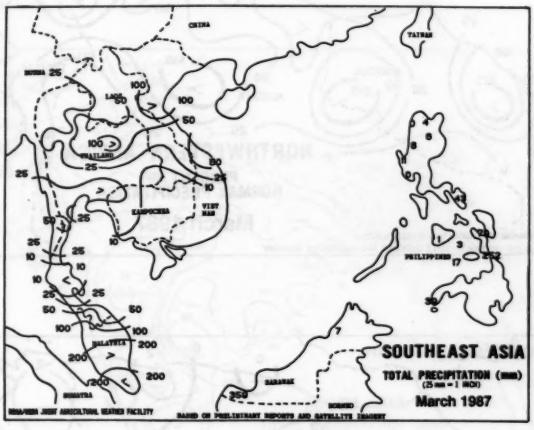


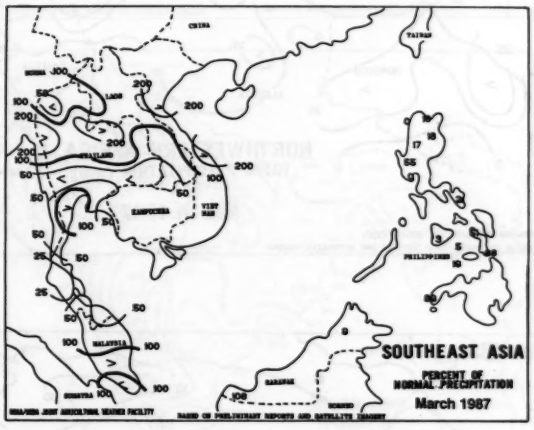


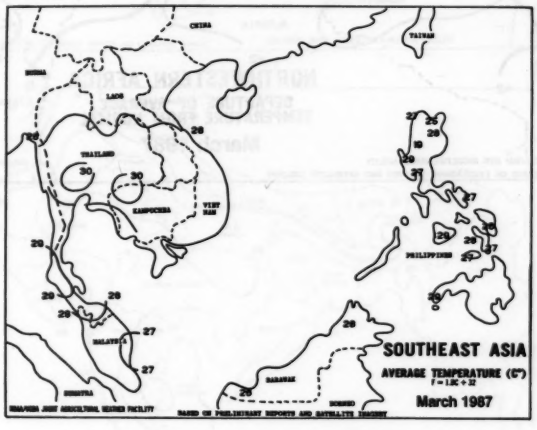


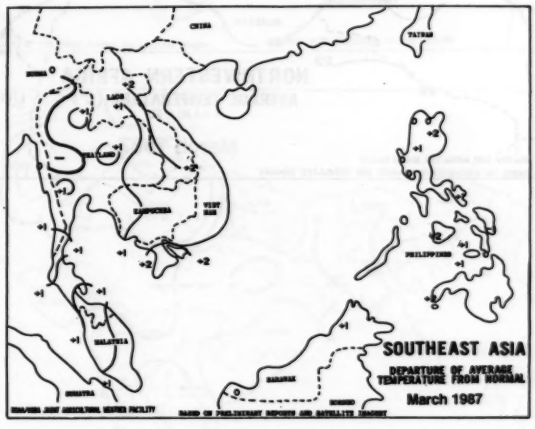
SOUTHEAST ASIA ... Showers (10 to 28mm) improved pre-planting soil conditions somewhat in eastern Thailand. Minimal rain (less than 2mm) covered rainfed crop areas in the north and northeast. March rainfall was near to above normal in most unirrigated crop areas, but a dry band persisted in the east. Mostly light rain (less than 4mm) covered the Philippines with pockets of moderate-to-heavy showers (11 to 38mm) in eastern Mindanao and southern Luzon. March rainfall was below normal throughout the Philippines. Moderate-to-heavy tropical showers covered Malaysia and Indonesia.



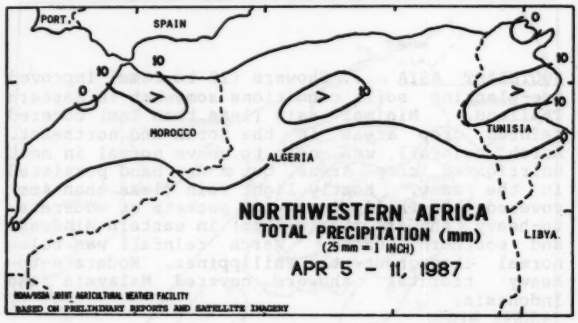


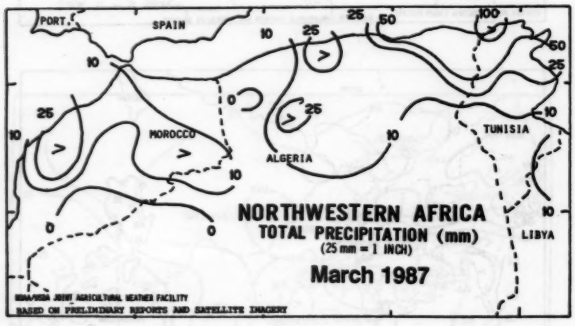


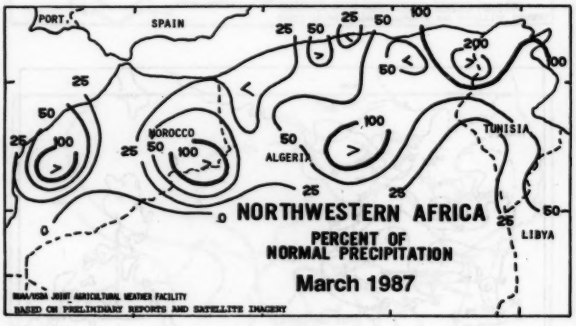


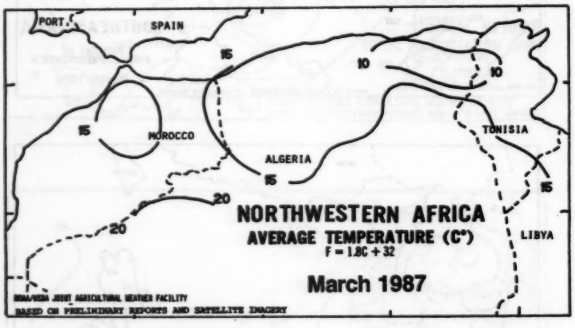


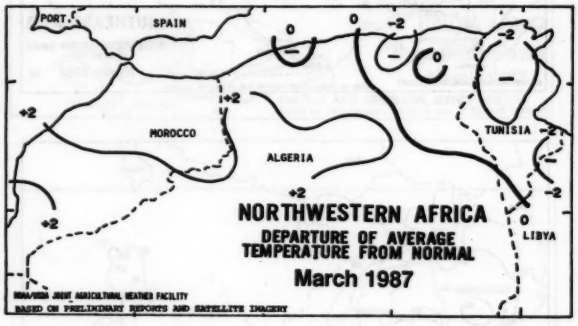
NORTHWESTERN AFRICA ... Minimal rain (less than 10mm) covered winter grains over much of the region. Continued unseasonable warm, dry weather, since late February in Morocco and northwestern Algeria, caused a decrease in crop prospects and has accelerated crop growth. Winter grains in these areas were likely in the filling stage. In central and eastern Algeria, unseasonable cool weather in March was followed by above-normal temperatures this past week. In addition, some nights had scattered frost in these areas during the latter half of March, which may have hurt early planted winter grains that were flowering. In Tunisia, above-normal March precipitation was followed by minimal rain this past week. In Tunisia, weather conditions thus far favored crop growth. Tunisian winter grains were likely in the grain formation to filling stages.



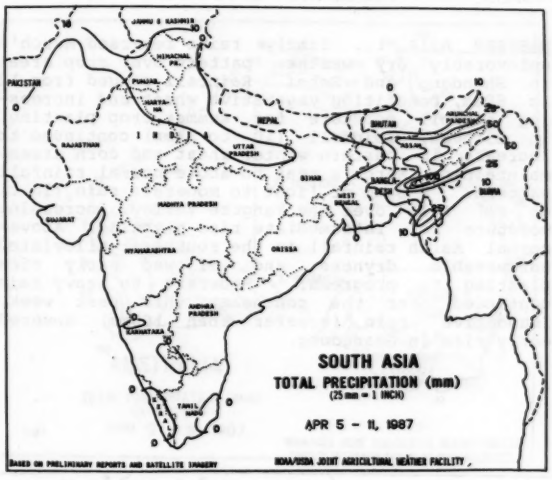


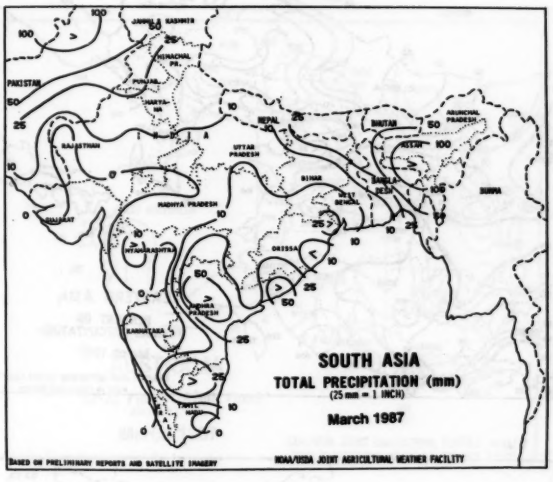


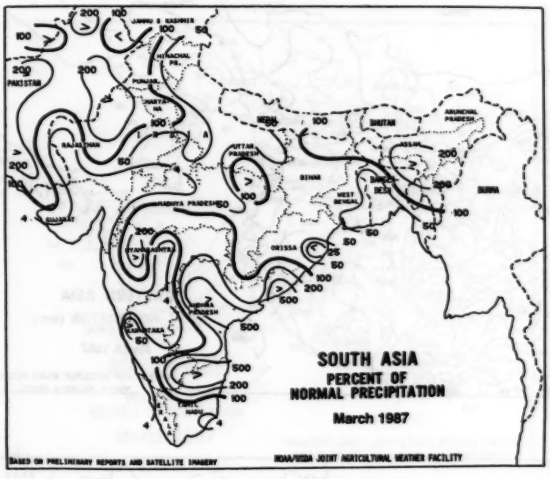


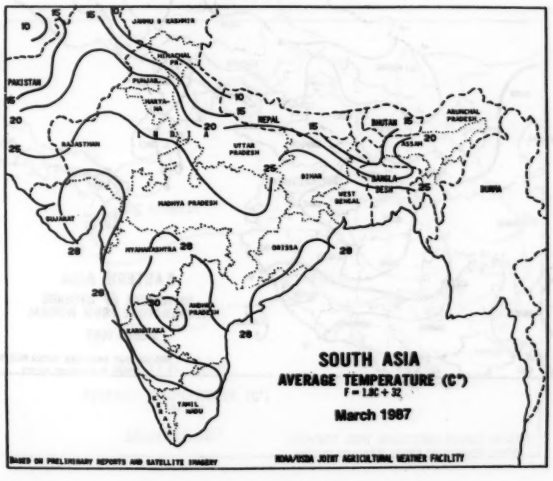


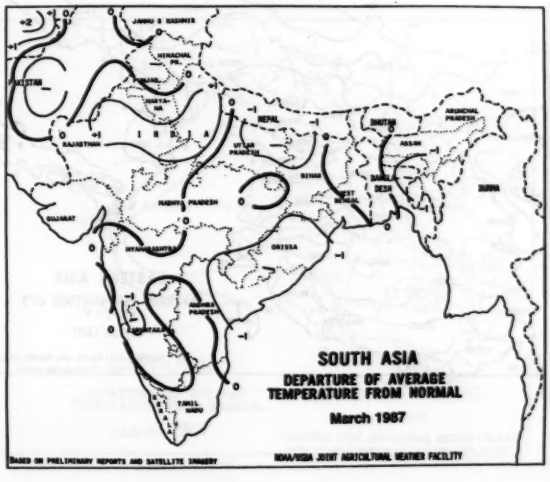
SOUTH ASIA ... Light rain (less than 12mm) lingered in northern Pakistan and northern India, continuing March's above-normal rainfall pattern. Normally, northern wheat is filling to maturing. Favorable harvest weather continued in central India, following possible delays in mid-March due to light rain. Scattered showers (2 to 34mm) continued in the eastern states and Bangladesh, but southern India was mostly dry. Showers in mid-March supplemented irrigation reserves for southern India's reproductive summer rice.


SOUTH ASIA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
APR 5 - 11, 1987
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

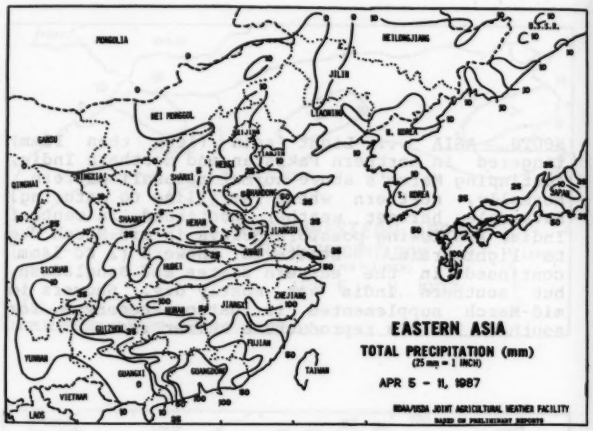

SOUTH ASIA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
March 1987
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

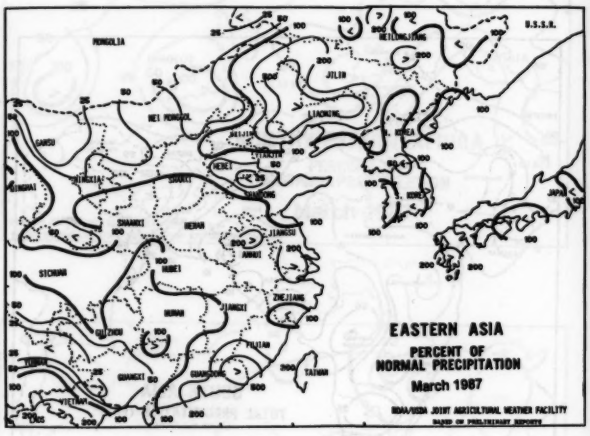


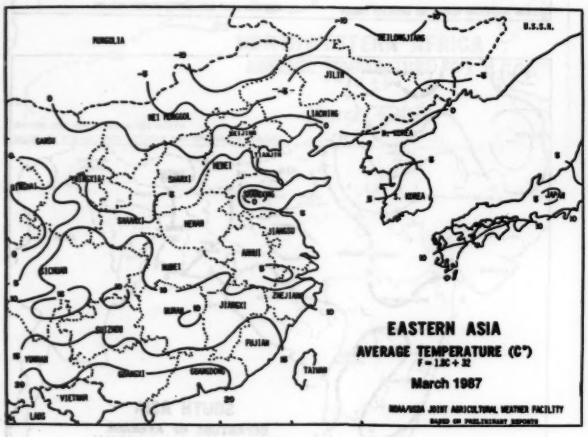

SOUTH ASIA
AVERAGE TEMPERATURE (C°)
F = 1.8C + 32
March 1987
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

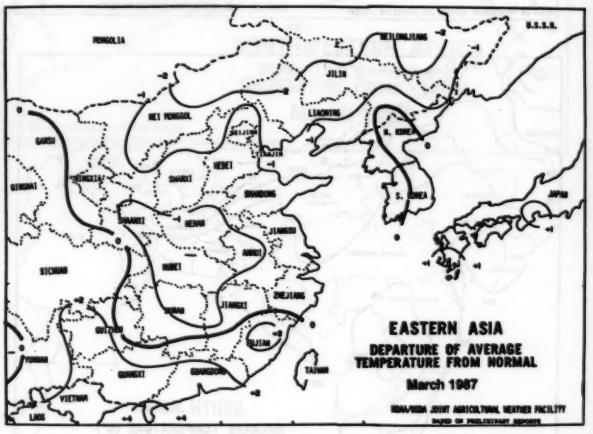


EASTERN ASIA ... Timely rains reversed March's unfavorably dry weather pattern over crop areas in Shandong and Hebei. Rainfall ranged from 12 to 68mm, benefiting vegetative wheat and increasing topsoil moisture for summer crop planting. In Sichuan, rainfall (10 to 34mm) continued to increase in eastern winter wheat and corn areas, maintaining March's near to above-normal rainfall pattern. A band of light to moderate rain (10 to 68 mm) fell over the Yangtze Valley, increasing moisture for intermediate rice planting. Above-normal March rainfall in the southeast alleviated unfavorable dryness and allowed early rice planting to progress. Moderate to heavy rain continued over the southeast this past week. Inundative rain (greater than 100mm) covered early rice in Guangdong.

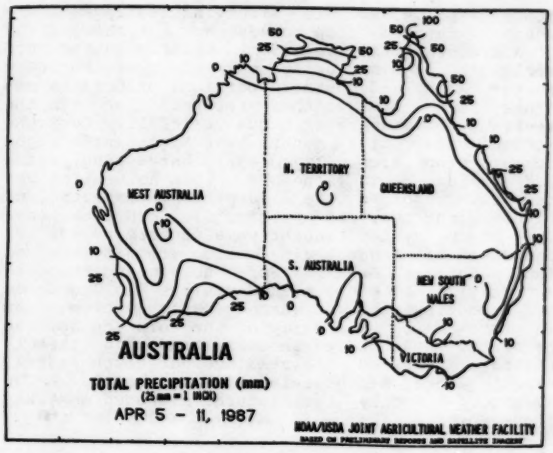


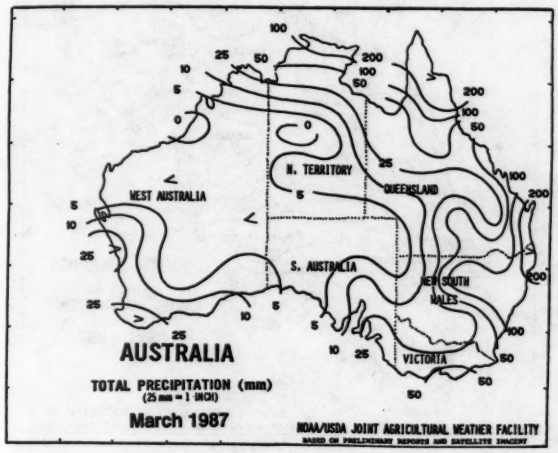


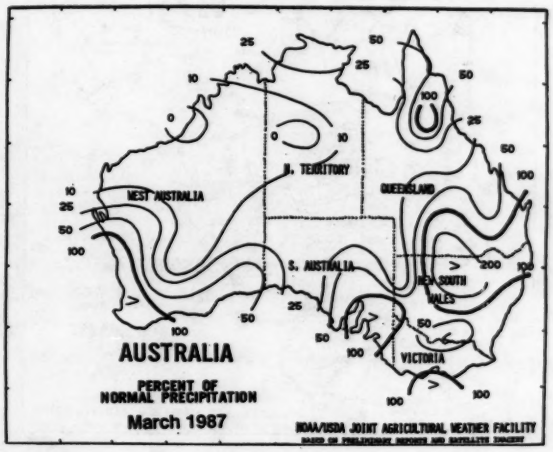


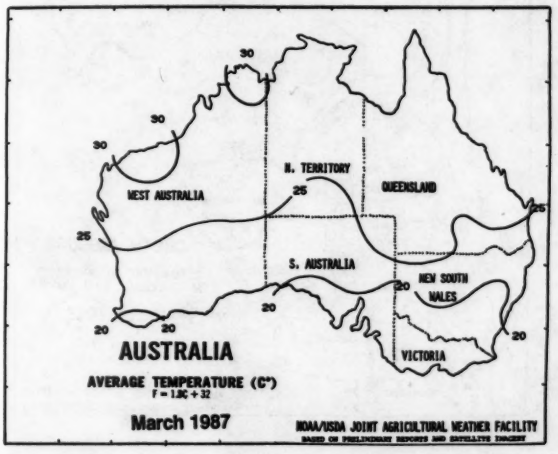


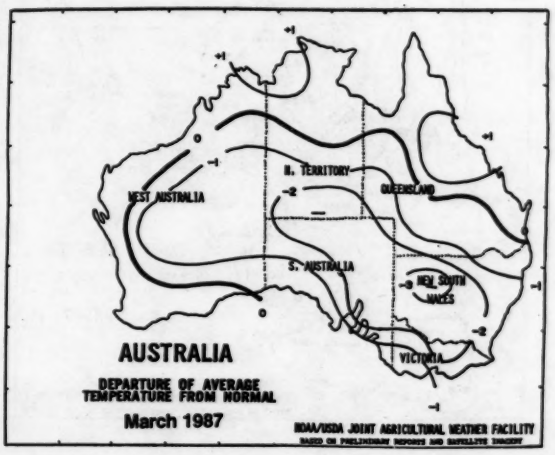
AUSTRALIA ... Dry weather continued in eastern Australia's summer crop region. Drier-than-normal weather in southern Queensland has persisted since mid-February, limiting moisture reserves in unirrigated areas. However, above-normal March rainfall in New South Wales maintained irrigation reserves for filling grains. Cotton and grains were maturing in Queensland and filling in New South Wales. Scattered showers (2 to 26mm) benefited sugarcane along Queensland's coast. Below-normal rainfall has persisted in most southern coastal areas since December, limiting moisture for the crop's normal development. Mostly light rain (less than 8mm) continued in the south from Western Australia to Victoria.



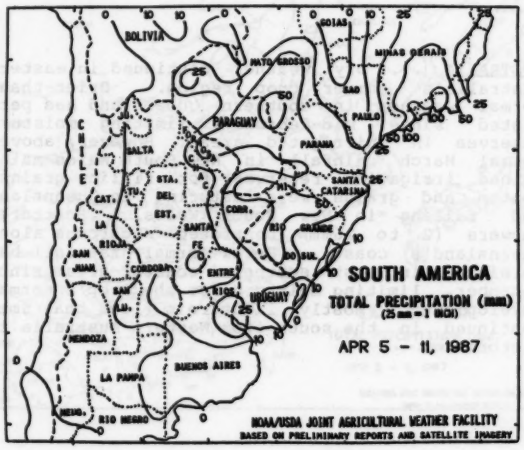








SOUTH AMERICA ... In Argentina, early week dry weather favored crop harvesting, but showers and thunderstorms (10 to 25mm) briefly interrupted fieldwork again during midweek over northern Buenos Aires and southern portions of Cordoba and Santa Fe. Dry weather returned late in the week. Above-average March rainfall, for the second consecutive month, over Argentina's major summer crop area delayed early harvesting, which has fallen behind schedule. Corn harvesting was recently reported over 30 percent complete compared with over 45 percent finished last year. The storm system brought some showers to eastern portions of Argentina's cotton area as it moved into southern Brazil. More showers and thunderstorms (25 to 68mm) soaked western Rio Grande do Sul, continuing a wet weather pattern which began in late March and delaying the corn and soybean harvests. Scattered showers, producing variable rainfall, covered the remainder of south-central Brazil where March rainfall was mostly below average. Weekly temperatures averaged somewhat above normal.


SOUTH AMERICA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
APR 5 - 11, 1987
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY

SOUTH AMERICA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
March 1987
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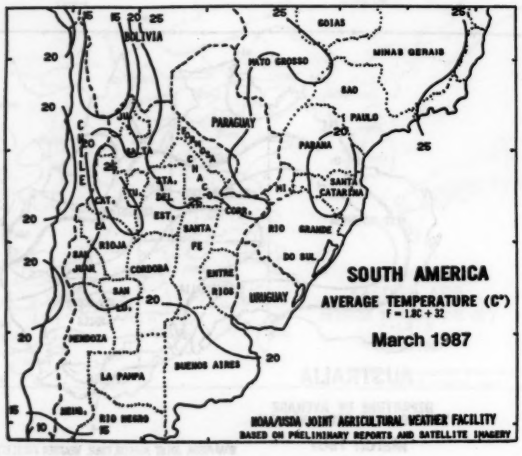
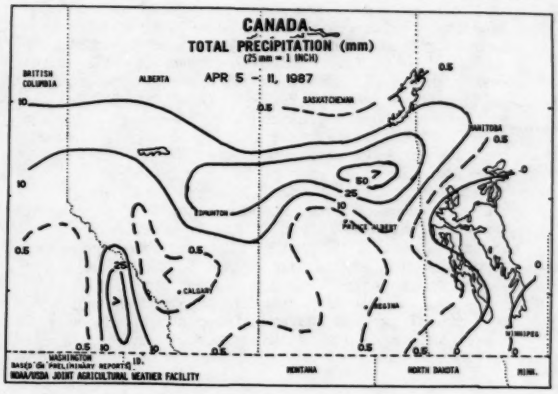
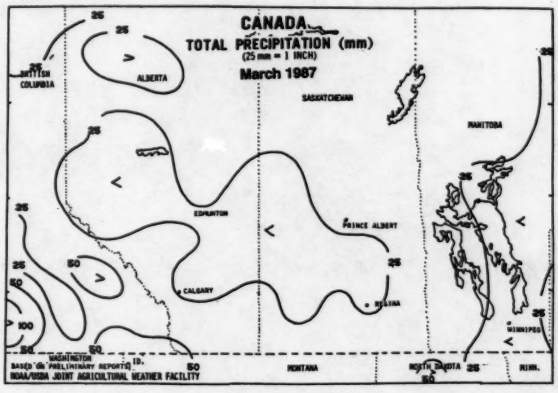
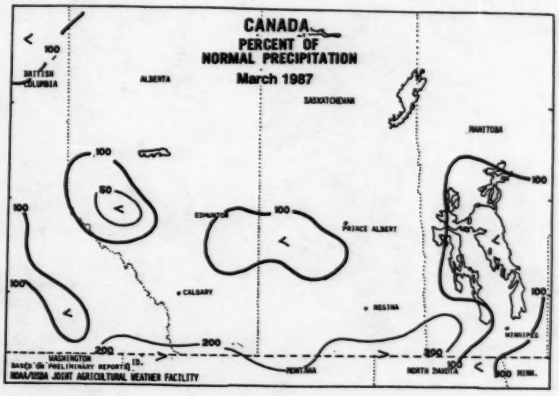
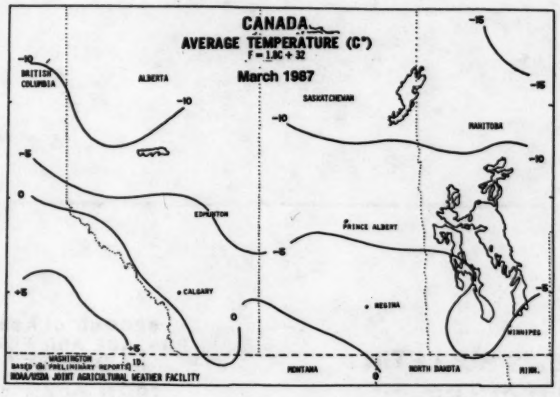

SOUTH AMERICA
AVERAGE TEMPERATURE (C°)
F = 1.8C + 32
March 1987
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY

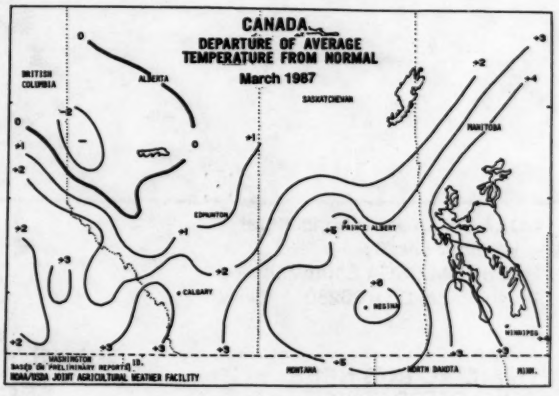
CANADA ... March precipitation was generally above average across much of the Prairie grain belt, which extends from Manitoba to Alberta. Near to somewhat below-average precipitation was confined to central and eastern Manitoba. The winter months of December through February were generally warmer and drier than average in the Prairie Provinces. The notable exception was during February when above-average precipitation covered Manitoba. Thus, the recent precipitation in western Manitoba, Saskatchewan, and Alberta improved topsoil moisture for the upcoming planting season, which normally begins in late April. Last autumn's seasonal to above-average precipitation provided a buildup of soil moisture reserves. March monthly temperatures continued the higher than average winter pattern, especially in the east. Mostly light showers and mild weather covered the region during the past week.











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